**Oracle® Communications
Diameter Signaling Router**

Licensing Information User Manual

Release 6.0.0

E58275 Revision 3

September 2015

ORACLE®

Introduction

This Licensing Information document is a part of the product or program documentation under the terms of your Oracle license agreement and is intended to help you understand the program editions, entitlements, restrictions, prerequisites, special license rights, and/or separately licensed third party technology terms associated with the Oracle software program(s) covered by this document (the "Program(s)"). Entitled or restricted use products or components identified in this document that are not provided with the particular Program may be obtained from the Oracle Software Delivery Cloud website (https://edelivery.oracle.com) or from media Oracle may provide. If you have a question about your license rights and obligations, please contact your Oracle salesrepresentative, review the information provided in Oracle's Software Investment Guide (http://www.oracle.com/us/corporate/pricing/software-investment-guide/index.html), and/or contact the applicable Oracle License Management Services representative listed on http://www.oracle.com/us/corporate/license-management-services/index.html.

Licensing Information

Description of Product Editions and Permitted Features

Prerequisite Products

Entitled Products and Restricted Use Licenses

Product	Subproduct	Licensing Description

Product	Subproduct	Licensing Description
Oracle Communications Diameter Signaling Router	Oracle Communications Diameter Signaling Router (base fee)- per Server	This product provides the following base Diameter Signaling Router functionality: OAM – Operations, administration, measurements functionality: SNMP, event logs, security logs, configuration, topology, user/group management and reports. Core Routing – Core routing and processing functionality that provides application specific handling of real-time Diameter messages. Congestion Management – Ingress and egress, local and remote Diameter congestion control. Connection Management – TCP, SCTP uni- and multi-homing, IPv4-IPv6 interworking, IPSec, load balancing and capabilities exchange. Diameter Mediation – GUI-based Diameter mediation framework used to build mediation rules to resolve inter-operability issues. Range Based Address Resolution – Stateless diameter proxy routing application that routes Diameter end-to-end transactions based on application ID, command code, routing entity type and routing entity address ranges. Message Copy – Ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router. IP Front End –TCP/SCTP connection based ingress load balancing which enables Diameter clients to access multiple Diameter Signaling Router servers via one or more virtual IP addresses. Geo-redundant – The Diameter Signaling Router can be deployed with or without geo-redundancy. High Availability – All message processing critical components are engineered with high levels of redundancy to ensure high availability. Included Products: • MySQL Enterprise Edition **Restriction:** MySQL Enterprise Edition is included for use with Oracle Communications Diameter Signaling Router (Base Fee). Use of MySQL Enterprise Edition, including without limitation MySQL Enterprise Backup, is restricted to use with Oracle Communications Diameter Signaling Router (Base Fee).

Product	Subproduct	Licensing Description
	Oracle Communications Diameter Signaling Router – per 100 Network-wide Messages per Second	**Description:** Determines the maximum number of network-wide Messages per Second (MPS) allowed by Oracle Communications Diameter Signaling Router. An MPS is defined as: 1. Processing of an ingress Diameter message and either transmitting a single outgoing message or discarding the ingress message. The outgoing message may be a variant of, or a response to, the ingress message. 2. Transmission of any Diameter message that is associated with incremental actions/events associated with #1 above. For example, the re-routing of a Request upon connection failure or the copying of a Request. Messages excluded from this measure are: • Diameter peer-to-peer messages: CER/CEA, DWR/DWA, and DPR/DPA • Ingress Diameter messages discarded by the DSR due to Overload controls • Answers received in response to Message Copy Network-wide MPS is calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node. Orderable in 100 MPS increments. **Prerequisites:** A license to Oracle Communications Diameter Signaling Router (base fee) is a prerequisite to license and use Oracle Communications Diameter Signaling Router (capacity) or a license to one of the following legacy products: DSR Initial Content per server DSR RMS Initial Content per server DSR 5 Content Bundle per server DSR 5 Initial Content per server DSR Diameter MPS per network DSR Core Routing per server DSR Core Routing per blade is a prerequisite to license and use Oracle Communications Diameter Signaling Router (capacity)

Product	Subproduct	Licensing Description

	Oracle Communications Diameter Signaling Router Roaming Proxy - per Server	**Description:** This sub-product adds the roaming proxy features listed below to the Oracle Communications Diameter Signaling Router. MME Topology Hiding HSS Topology Hiding Path Topology Hiding
		
		Prerequisites: A license to Oracle Communications Diameter Signaling Router (base fee) is a prerequisite to license and use Oracle Communications Diameter Signaling Router Roming Proxy or a license to one of the following legacy products:
		  DSR Initial Content per server
		  DSR RMS Initial Content per server
		  DSR Core Routing per server
		  DSR Core Routing per blade
		  DSR Policy Proxy per blade
		is a prerequisite to license and use Oracle Communications Diameter Signaling Router Roaming Proxy.

	Oracle Communications Diameter Signaling Router Full Address Resolution – per Server	**Description:** This sub-product adds full address resolution features to the Oracle Communications Diameter Signaling Router. Full address resolution is an enhanced proxy routing application that routes end-to-end Diameter transactions based on app-id, Command Code, Routing Entity type and Individual Routing Entity. This sub-product adds the following functionality to the Oracle Communications Diameter Signaling Router:
		
		Subscriber Database Server - Provides provisioning and storage of database information for full address resolution. Supports querying, reports and audits.
		Database Processor – Provides real-time access to the subscriber database at the signaling node.
		
		Prerequisites: A license to Oracle Communications Diameter Signaling Router (base fee) is a prerequisite to license and use Oracle Communications Diameter Signaling Router Full Address Resolution or a license to one of the following legacy products:
		  DSR Initial Content per server
		  DSR Core Routing per server
		  DSR Core Routing per blade
		  DSR Policy Proxy per blade
		 is a prerequisite to license and use Oracle Communications Diameter Signaling Router Full Address Resolution.

Product	Subproduct	Licensing Description
	Oracle Communications Diameter Signaling Router Full Address Resolution – per 25k Subscriber	**Description:** Determines the number of subscribers or entities allowed by Oracle Communications Diameter Signaling Router for full address resolution. Licensing for Subscribers is provided on a network-wide basis. Each entry (entity) in the provisioned subscriber (SDS) database server (SDS) counts as one subscriber. Orderable in 25k subscriber increments. **Prerequisites:** A license to Oracle Communications Diameter Signaling Router Full Address Resolution per server is a prerequisite to license and use Oracle Communications Diameter Signaling Router Full Address Resolution per 25k subscribers or a license to one of the following legacy products: DSR Address Resolution Proxy per server DSR Full Address Resolution I per server DSR 5 Content Bundle per server DSR 5 Initial Content per server DSR Subscribers per network is a prerequisite to license and use Oracle Communications Diameter Signaling Router Full Address Resolution per 25k subscribers.
	Oracle Communications Diameter Signaling Router Policy Proxy – per Server	**Description:** This sub-product adds policy proxy to the Oracle Communicaitons Diameter Signaling Router to enable the Policy DRA function. Policy DRA enables dynamic routing of subscriber sessions to PCRFs. This sub- product: Distributes Gx/Gxx/S9/Rx sessions across PCRFs Provides network-wide subscriber session binding Provides session correlation across mated pairs Performs topology hiding to hide the identities of the PCRFs from other elements in the network. **Prerequisites:** A license to Oracle Communications Diameter Signaling Router (base fee) is a prerequisite to license and use Oracle Communications Diameter Signaling Router Policy Proxy or a license to one of the following legacy products: DSR Initial Content per server DSR Core Routing per server DSR Core Routing per blade is a prerequisite to license and use Oracle Communications Diameter Signaling Router Policy Proxy.

Product	Subproduct	Licensing Description
	Oracle Communications Diameter Signaling Router Policy Proxy – per 5K Network-wide Concurrent Sessions	**Description:** Determines the number of concurrent Diameter sessions allowed by Oracle Communications Diameter Signaling Router Policy Proxy. Licensing for concurrent sessions is provided on a network-wide basis. Network-wide concurrent sessions are calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node. Orderable in 5k session increments. **Prerequisites:** A license to Oracle Communications Diameter Signaling Router Policy Proxy per server is a prerequisite to license and use Oracle Communications Diameter Signaling Router Policy Proxyper 5k Netowrk-wide Concurrent Sessions or a license to one of the following legacy products: DSR Policy Proxy 1 per server DSR 5 Content Bundle per server DSR 5 Initial Content per server DSR Policy Concurrent Sessions per network is a prerequisite to license and use Oracle Communications Diameter Signaling Router Policy Proxy per 5k Network-wide Concurrent Sessions.
	Oracle Communications Diameter Signaling Router Off-Line Charging Server (OFCS) Proxy Base – per Server	**Description:** This sub-product adds off-line charging server proxy features to the Oracle Communications Diameter Signaling Router. The off-line charging proxy supports a Diameter proxy agent over the Rf interface between multiple Charging Trigger Function (CTF) clients such as PGWs, SGWs, GGSNs, CSFCs, and multiple Charging Data Function (CDF) servers. This sub-product adds a Session/Subscriber Binding Repository and Charging Topology Hiding to the Oracle Communications Diameter Signaling Router. **Prerequisites:** A license to Oracle Communications Diameter Signaling Router (base fee) is a prerequisite to license and use Oracle Communications Diameter Signaling Router Off-Line Charging Server Proxy or a license to one of the following legacy products: DSR Initial Content per server DSR Core Routing per server DSR Core Routing per blade DSR 5 Content Bundle per server DSR 5 Initial Content per server is a prerequisite to license and use Oracle Communications Diameter Signaling Router Off-Line Charging Server Proxy.

Product	Subproduct	Licensing Description

	Oracle Communications Diameter Signaling Router Off-Line Charging Server Proxy – per 5K Network-wide Concurrent Sessions	**Description:** Determines the number of concurrent Diameter sessions allowed by Oracle Communications Diameter Signaling Router for off-line charging server (OFCS) proxy. Licensing for concurrent sessions is provided on a network-wide basis.
		
		Network-wide concurrent sessions are calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node.
		
		Orderable in 5k session increments.
		
		Prerequisites: A license to Oracle Communications Diameter Signaling Router Off-Line Charging Server Proxy per server is a prerequisite to license and use Oracle Communications Diameter Signaling Router Off-Line Charging Server per 5k network-wide concurrent sessions or a license to one of the following legacy products:
		  DSR 5 Content Bundle per server
		  DSR 5 Initial Content per server
		is a prerequisite to license and use Oracle Communications Diameter Signaling Router Off-Line Charging Server Proxy per 5k Network-wide Concurrent Sessions.

	Oracle Communications Diameter Signaling Router, Policy Proxy II - Server Perpetual	**Description:** This sub-product adds policy proxy features to the Oracle Communications Diameter Signaling Router Policy Proxy.
		
		This sub-product adds::
		• Support for multiple PCRF pools including the ability to select the pool based on the APN+IMSI
		• Support for Gx' and Gx-Lite messages
		• Gateway Location Application (GLA) interface support to access the binding database.
		• Policy Proxy Selection & routing to a PCRF pool based on APN
		
		Prerequisites: A license to Oracle Communications Diameter Signaling Router Policy Proxy is a prerequisite to license and use Oracle Communications Diameter Signaling Router Policy Proxy II or a license to one of the following legacy products:
		  DSR Policy Proxy 1 per server
		  DSR 5 Content Bundle per server
		  DSR 5 Initial Content per server
		  DSR Core Routing per blade
		  DSR Policy Proxy per blade
		is a prerequisite to license and use Oracle Communications Diameter Signaling Router Policy Proxy II.

Product	Subproduct	Licensing Description

	Oracle Communications Diameter Signaling Router Translation Agent Base - Server Perpetual	**Description:**
		This sub-product adds MAP Diameter Interworking features to the Oracle Communications Diameter Signaling Router. For LTE-3G roaming, the DSR plays the role of the Interworking Function (IWF) to provide protocol mediation between Gr/Gr+ (3GPP MAP) and S6d (Diameter). The IWF also supports 3G-3G roaming over the S6d interface (SGSN Rel8). This capability also supports access by the MME or Rel8 SGSN over the S13 Diameter interface to an SS7 EIR DB, or vice-versa.
		
		Prerequisites: A license to Oracle Communications Diameter Signaling Router is a prerequisite to license and use Oracle Communications Diameter Signaling Router Translation Agent Base or a license to one of the following legacy products:
		  DSR Initial Content per server
		  DSR RMS Initial Content per server
		  DSR Core Routing per server
		  DSR Core Routing per blade
		  DSR Policy Proxy per blade
		  DSR 5 Content Bundle per server
		  DSR 5 Initial Content per server
		is a prerequisite to license and use Oracle Communications Diameter Signaling Router Translation Agent Base.

Product	Subproduct	Licensing Description
	Oracle Communications Diameter Signaling Router, Core Routing I – Server Perpetual	**Description:** This sub-product adds Active/Standby Peer Node Support and mediation enhancement features to the Oracle Communications Diameter Signaling Router. The following features are added with this sub-product: • Active/Standby Peer Node Support • Mediation Enhancements: ○ Support for logical OR'ing and a mechanism to group conditions ○ Support for "optional" actions ○ Support for a combined 'set/add AVP' action ○ Support for grouped AVPs to a depth of 5 ○ Support for checking of ranges on numbers ○ Import/export of templates ○ Support for setting Message Priority and Route List in mediation. ○ Support for Discard message action ○ Support for Bit Set/Reset in conditions and actions ○ Ability to check for peers/connections in conditions ○ Special function to set Destination Realm from IMSI. ○ Support for setting "OctetString" type from the GUI. • DSR maximum message size of 60,000 bytes • PDU Pool Flexible Message Sizing • DSR NOAM/SDS 32 Node Support **Prerequisites:** A license to Oracle Communications Diameter Signaling Router is a prerequisite to license and use Oracle Communications Diameter Signaling Router Core Routing I or a license to one of the following legacy products: DSR Initial Content per server DSR RMS Initial Content per server DSR Core Routing per server DSR Core Routing per blade DSR Policy Proxy per blade DSR 5 Content Bundle per server DSR 5 Initial Content per server is a prerequisite to license and use Oracle Communications Diameter Signaling Router Core Routing I.

Product	Subproduct	Licensing Description

	Oracle Communications Integrated Diameter Intelligence Hub - Server Perpetual	**Description:**
		This product provides a troubleshooting tool for the Oracle Communications Diameter Signaling Router. This product:
		
		• Integrates the configuration of trace filters directly into DSR
		
		• Allows trace filters to be applied against all messages processed by DSR
		
		• Allows Transaction Data Records containing both Diameter Requests and Answers to be captured for additional analysis and filtering.
		
		• Provides Ladder Diagrams to facilitate troubleshooting concerning message sequence and peer connection issues.
		
		• Supports detailed decoding of AVPs associated with the base Diameter protocol, as well as the following interfaces: Sh, Cx, Gy, Cc, S6a/d, Gx, Rx, SLg, SLh, SWm, SWx, STa, S6b, S9, Gxa
		
		Prerequisites: A license to Oracle Communications Technology Foundation for Monitoring Applications is a prerequisite to license and use Oracle Communications Integrated Diameter Intelligence Hub or a license to the following products:
		  Oracle Database Enterprise Edition
		  Oracle Database Enterprise Edition Option: Partitioning
		  WebLogic Server Enterprise Edition
		are prerequisites to license and use Oracle Communications Integrated Diameter Intelligence Hub.
		
		Included Products:
		
		• MySQL Enterprise Edition
		
		Restriction:
		MySQL Enterprise Edition is included for use as the Oracle Communications Integrated Diameter Intelligence Hub Management Repository. Use of MySQL Enterprise Edition, including without limitation MySQL Enterprise Backup, is restricted to use with Oracle Communications Integrated Diameter Intelligence Hub.

Oracle Communications Diameter Signaling Router – Licensing Notes – Legacy

Product	Subproduct	Licensing Description
Oracle Communications Diameter Signaling Router	EXG DSR MPS Per Node	Determines the maximum number of nodal Messages per Second (MPS) allowed by Oracle Communications Diameter Signaling Router. An MPS is defined as: 1. Processing of an ingress Diameter message and either transmitting a single outgoing message or discarding the ingress message. The outgoing message may be a variant of, or a response to, the ingress message. 2. Transmission of any Diameter message that is associated with incremental actions/events associated with #1 above. For example, the re-routing of a Request upon connection failure or the copying of a Request. Messages excluded from this measure are: • Diameter peer-to-peer messages: CER/CEA, DWR/DWA, and DPR/DPA • Ingress Diameter messages discarded by the DSR due to Overload controls • Answers received in response to Message Copy Nodal MPS is calculated as the peak 5-minute interval of the signaling node. A node is defined as a network element that is managed by a single system operations, alarms and measurements server pair. Orderable in MPS increments that match MPS capacity product description. **Restrictions**: This product SKU is for legacy customer applications only.
	EXG DSR IPSEC MPS Per Node	Determines the maximum number of nodal Messages per Second (MPS) using IPSec encryption allowed by Oracle Communications Diameter Signaling Router. Orderable in MPS increments that match IPSec MPS capacity product description. **Prerequisites:** A license to Oracle Communications Diameter Signaling Router EXG DSR MPS Per Node is a prerequisite to license and use Oracle Communications Diameter Signaling Router EXG DSR IPSEC Per Node. **Restrictions:** This product SKU is for legacy customer applications only.

	EXG DSR Connections per Node	Determines the number of connections allowed by Oracle Communications Diameter Signaling Router. A connection is defined as an SCTP association or a TCP/IP connection. Orderable in increments that match product description. **Restrictions:** This product SKU is for legacy customer applications only.
	EXG DSR ADDL Routing Pkg 1	Enables the capability per node of the Oracle Communications Diameter Signaling Router to route based on Command Code and Origin Realm. **Restrictions:** This product SKU is for legacy customer applications only.
	EXG DSR ADDL Routing Entries per Node	Determines the number of routing entries allowed by Oracle Communications Diameter Signaling Router. A routing entry is defined as an entry in the DSR routing table. Orderable in increments that match product description. **Restrictions:** This product SKU is for legacy customer applications only.
	EXG DSR NPA Splits Per Node	This sub-product enables the Oracle Communications Diameter Signaling Router Subscriber Database Server to automatically create temporary duplicate MSISDN records during Numbering Plan Area (NPA) split process. **Restrictions:** This product SKU is for legacy customer applications only.

		EXG DSR LTE Address Resolution	This sub-product adds full address resolution features per node to the Oracle Communications Diameter Signaling Router for the LTE HSS. Full address resolution is an enhanced proxy routing application that routes end-to-end Diameter transactions based on app-id, Command Code, Routing Entity type and Individual Routing Entity. This sub-product adds the following functionality to the Oracle Communications Diameter Signaling Router: Subscriber Database Server – Provides provisioning and storage of database information for full address resolution. Supports querying, reports and audits. Database Processor – Provides real-time access to the subscriber database at the signaling node. **Restrictions:** This product SKU is for legacy customer applications only.
		EXG DSR IMS Address Resolution	This sub-product adds full address resolution features per node to the Oracle Communications Diameter Signaling Router for the IMSHSS. Full address resolution is an enhanced proxy routing application that routes end-to-end Diameter transactions based on app-id, Command Code, Routing Entity type and Individual Routing Entity. This sub-product adds the following functionality to the Oracle Communications Diameter Signaling Router: Subscriber Database Server – Provides provisioning and storage of large amounts of database information for full address resolution. Supports querying, reports and audits. Database Processor – Provides real-time access to the subscriber database at the signaling node. **Restrictions:** This product SKU is for legacy customer applications only.
		EXG DSR IMS Range Address Resolution	This sub-product adds range based address resolution features per node to the Oracle Communications Diameter Signaling Router for IMS. This sub-product adds the following functionality to the Oracle Communications Diameter Signaling Router: • Routing based on appl-id, Command Code, Routing Entity Type and Routing Entity address ranges • Routing Entity types can be a user identity (IMSI, MSISDN, IMPI or IMPU) or an IP address • Allows definition of a prioritized (primary and secondary) Routing Entity type and associated range for each app-ID/Command Code combination. **Restrictions:** This product SKU is for legacy customer applications only.

	EXG DSR LTE Range Address Resolution	This sub-product adds range based address resolution features per node to the Oracle Communications Diameter Signaling Router for LTE.
		This sub-product adds the following functionality to the Oracle Communications Diameter Signaling Router:
		• Routing based on appl-id, Command Code, Routing Entity Type and Routing Entity address ranges • Routing Entity types can be a user identity (IMSI, MSISDN, IMPI or IMPU) or an IP address • Allows definition of a prioritized (primary and secondary) Routing Entity type and associated range for each app-ID/Command Code combination.
		Restrictions:
		This product SKU is for legacy customer applications only.
	EXG DSR SLF	This sub-product adds full address resolution features per node to the Oracle Communications Diameter Signaling Router. Full address resolution is an enhanced proxy routing application that routes end-to-end Diameter transactions based on app-id, Command Code, Routing Entity type and Individual Routing Entity. This sub-product adds the following functionality to the Oracle Communications Diameter Signaling Router:
		Subscriber Database Server – Provides provisioning and storage of database information for full address resolution. Supports querying, reports and audits.
		Database Processor – Provides real-time access to the subscriber database at the signaling node.
		Restrictions:
		This product SKU is for legacy customer applications only.
	EXG DSR Subscribers	Determines the number of subscribers or entities allowed per node by Oracle Diameter Signaling Router for full address resolution. Each entry (entity) in the provisioned subscriber database server (SDS) counts as one subscriber.
		Orderable in subscriber increments that match product desciption.
		Restrictions:
		This product SKU is for legacy customer applications only.
	SDS Software Kernel	This sub-product enables per node the Oracle Communications Diameter Signaling Router Subscriber Database Server (SDS) which is used for IMS or LTE Full Address Resolution or SLF.
		Restrictions:
		This product SKU is for legacy customer applications only.

	SDS Query Server	This sub-product enables per node the Oracle Communications Diameter Signaling Router Subscriber Database Server (SDS) for an offline version of the address resolution database on a query server. This function is used for IMS or LTE Full Address Resolution or SLF. **Restrictions:** This product SKU is for legacy customer applications only.
	EXG DSR Message Throttling	This sub-product enables per node message throttling in the Oracle Communications Diameter Signaling Router. This sub-product adds the following functionality to the Oracle Communications Diameter Signaling Router: • Per-connection Ingress MPS control • Per-connection Egress Message throttling • Remote BUSY congestion control • Remote Transport congestion control **Restrictions:** This product SKU is for legacy customer applications only.
	EXG DSR Mediation Rules Per Node	This sub-product adds Diameter Mediation to the Oracle Communications Diameter Signaling Router. Diameter Mediation is a GUI-based Diameter mediation framework used to build mediation rules to resolve inter-operability issues. A mediation rule is defined as a rules template which contains multiple conditions and actions associated with the mediation function. Orderable in increments that match product description. **Restrictions:** This product SKU is for legacy customer applications only.
	EXG DSR OFCS Topology Hiding Per Node	This sub-product adds Off-Line Charging topology hiding to the Oracle Communications Diameter Signaling Router. This sub-product provides topology hiding to and from Charging Trigger Functions and Charging Data Functions. **Restrictions:** This product SKU is for legacy customer applications only.

	EXG DSR Concurrent Sessions	Determines the number of concurrent Diameter sessions allowed per node by Oracle Communications Diameter Signaling Router for policy proxy or off-line charging proxy. Licensing for concurrent sessions is provided on a per node basis.
		Nodal concurrent sessions are calculated as the peak 5-minute interval of the signaling node managed by a single system operations, administration and maintenance server pair.
		Orderable in session increments that match session capacity product description.
		Restrictions:
		This product SKU is for legacy customer applications only.
	EXG DSR IPFE GB/S	Determines the bandwidth per node of the IP Front End allowed by Oracle Communications Diameter Signaling Router.
		Orderable in bandwidth increments that match product description.
		Restrictions:
		This product SKU is for legacy customer applications only.
	EXG DSR Policy Topology Hiding Per Node	This sub-product adds policy topology hiding to the Oracle Communications Diameter Signaling Router. This feature hides the identities PCRFs from other elements in the network.
		Restrictions:
		This product SKU is for legacy customer applications only.
	EXG DSR Remote Congestion Control Per Node	This sub-product enables the following remote congestion control features in the Oracle Communications Diameter Signaling Router:
		• Remote BUSY congestion control
		• Remote Transport congestion control
		Restrictions:
		This product SKU is for legacy customer applications only.
	EXG DSR Per Connection TPS Controls Per Node	This sub-product enables the following per connection message control features in the Oracle Communications Diameter Signaling Router:
		• Per-connection Ingress MPS control
		• Per-connection Egress Message throttling
		Restrictions:
		This product SKU is for legacy customer applications only.

	EXG DSR Policy DRA Per Node	This sub-product adds Policy DRA to the Oracle Communications Diameter Signaling Router. Policy DRA enables dynamic routing of subscriber sessions to PCRFs, distributes Gx/Gxx/S9/Rx sessions across PCRFs and provides network-wide subscriber session binding **Restrictions:** This product SKU is for legacy customer applications only.
	EXG DSR Policy Correlation Per Node	This sub-product adds policy proxy correlation to the Oracle Communications Diameter Signaling Router. Policy correlation provides session correlation across interfaces, such as Gx and Rx, and across mated DSR pairs. **Restrictions:** This product SKU is for legacy customer applications only.
	DSR 5K MPS Per Network	Determines the maximum number of network-wide Messages per Second (MPS) allowed by Oracle Communications Diameter Signaling Router. An MPS is defined as: 1. Processing of an ingress Diameter message and either transmitting a single outgoing message or discarding the ingress message. The outgoing message may be a variant of, or a response to, the ingress message. 2. Transmission of any Diameter message that is associated with incremental actions/events associated with #1 above. For example, the re-routing of a Request upon connection failure or the copying of a Request. Messages excluded from this measure are: • Diameter peer-to-peer messages: CER/CEA, DWR/DWA, and DPR/DPA • Ingress Diameter messages discarded by the DSR due to Overload controls • Answers received in response to Message Copy Network-wide MPS is calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node. Orderable in increments that match product description. **Restrictions:** This license is for specific legacy customer applications only.

		DSR 5M Concurrent Sessions Per Network	Determines the number of concurrent Diameter sessions allowed by Oracle Communications Diameter Signaling Router for policy proxy.
			Network-wide concurrent sessions are calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node.
			Orderable in increments that match product description.
			Restrictions:
			This product SKU is for legacy customer applications only.
		DSR Concurrent Sessions per 5M Per Network	Determines the number of concurrent Diameter sessions allowed by Oracle Communications Diameter Signaling Router for policy proxy.
			Network-wide concurrent sessions are calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node.
			Orderable in increments that match product description.
			Restrictions:
			This product SKU is for legacy customer applications only.
		SDS XML to PDBI Conversion Per Network	This sub-product adds an XML to PDBI conversion capability to the Oracle Communications Diameter Signaling Router Subscriber Database Server. This interface conversion allows for interoperability between the Subscriber Database Server and legacy PDBI network elements.
			Restrictions:
			This product SKU is for legacy customer applications only.

	DSR MPS Per 100K Per Network	Determines the maximum number of network-wide Messages per Second (MPS) allowed by Oracle Communications Diameter Signaling Router. An MPS is defined as: 1. Processing of an ingress Diameter message and either transmitting a single outgoing message or discarding the ingress message. The outgoing message may be a variant of, or a response to, the ingress message. 2. Transmission of any Diameter message that is associated with incremental actions/events associated with #1 above. For example, the re-routing of a Request upon connection failure or the copying of a Request. Messages excluded from this measure are: • Diameter peer-to-peer messages: CER/CEA, DWR/DWA, and DPR/DPA • Ingress Diameter messages discarded by the DSR due to Overload controls • Answers received in response to Message Copy Network-wide MPS is calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node. Orderable in increments that match product description. **Restrictions:** This product SKU is for legacy customer applications only.

	DSR Core Routing Per Blade	This sub-product provides the following base Oracle Communications Diameter Signaling Router functionality:
		OAM – Operations, administration, measurements functionality including SNMP, event logs, security logs, configuration, topology, user/group management and reports.
		Core Routing – Core routing and processing functionality that provides application specific handling of real-time Diameter messages.
		Congestion Management – Ingress and egress, local and remote Diameter congestion control.
		Connection Management – TCP, SCTP uni- and multi-homing, IPv4-IPv6 interworking, IPSec, load balancing and capabilities exchange.
		Diameter Mediation – GUI-based Diameter mediation framework used to build mediation rules to resolve inter-operability issues.
		Range Based Address Resolution – Stateless diameter proxy routing application that routes Diameter end-to-end transactions based on application ID, command code, routing entity type and routing entity address ranges.
		Message Copy – Ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router.
		IP Front End –TCP/SCTP connection based ingress load balancing which enables Diameter clients to access multiple Diameter Signaling Router servers via one or more virtual IP addresses.
		Geo-redundant – The Diameter Signaling Router can be deployed with or without geo-redundancy.
		High Availability – All message processing critical components are engineered with high levels of redundancy to ensure high availability.
		Orderable in increments that product description.
		Restrictions:
		This product SKU is for legacy customer applications only.

	DSR Policy Proxy Per Blade	This sub-product adds policy proxy to the Oracle Communications Diameter Signaling Router.The policy proxy enables dynamic routing of subscriber sessions to PCRFs andsupports the following capabilities: • Distributes Gx/Gxx/S9/Rx sessions across PCRFs • Provides network-wide subscriber session binding • Provides session correlation across mated pairs • Performs topology hiding to hide the identities of the PCRFs from other elements in the network. Orderable in increments that product description. **Restrictions:** This product SKU is for legacy customer applications only.
	DSR Diameter MPS Per Network	Determines the maximum number of network-wide Messages per Second (MPS) allowed by Oracle Communications Diameter Signaling Router. An MPS is defined as: 1. Processing of an ingress Diameter message and either transmitting a single outgoing message or discarding the ingress message. The outgoing message may be a variant of, or a response to, the ingress message. 2. Transmission of any Diameter message that is associated with incremental actions/events associated with #1 above. For example, the re-routing of a Request upon connection failure or the copying of a Request. Messages excluded from this measure are: • Diameter peer-to-peer messages: CER/CEA, DWR/DWA, and DPR/DPA • Ingress Diameter messages discarded by the DSR due to Overload controls • Answers received in response to Message Copy Network-wide MPS is calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node. Orderable in single MPS increments. **Restrictions:** This product SKU is for legacy customer applications only.

	DSR Policy Concurrent Sessions Per Network	Determines the number of concurrent Diameter sessions allowed by Oracle Communications Diameter Signaling Router for policy proxy.
		Network-wide concurrent sessions are calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node.
		Orderable in single session increments.
		Restrictions:
		This product SKU is for legacy customer applications only.
	DSR Subscribers - Per Network	Determines the number of subscribers or entities allowed by Oracle Communications Diameter Signaling Router for full address resolution. Each entry (entity) in the provisioned subscriber database server (SDS) counts as one subscriber.
		Orderable in single subscriber increments.
		Restrictions:
		This product SKU is for legacy customer applications only.

	DSR Core Routing Per Server	This sub-product provides the following base Oracle Communications Diameter Signaling Router functionality OAM – Operations, administration, measurements functionality including SNMP, event logs, security logs, configuration, topology, user/group management and reports.
		Core Routing – Core routing and processing functionality that provides application specific handling of real-time Diameter messages.
		Congestion Management – Ingress and egress, local and remote Diameter congestion control.
		Connection Management – TCP, SCTP uni- and multi-homing, IPv4-IPv6 interworking, IPSec, load balancing and capabilities exchange.
		Diameter Mediation – GUI-based Diameter mediation framework used to build mediation rules to resolve inter-operability issues.
		Range Based Address Resolution – Stateless diameter proxy routing application that routes Diameter end-to-end transactions based on application ID, command code, routing entity type and routing entity address ranges.
		Message Copy – Ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router.
		IP Front End –TCP/SCTP connection based ingress load balancing which enables Diameter clients to access multiple Diameter Signaling Router servers via one or more virtual IP addresses.
		Geo-redundant – The Diameter Signaling Router can be deployed with or without geo-redundancy.
		High Availability – All message processing critical components are engineered with high levels of redundancy to ensure high availability.
		Restrictions:
		This product SKU is for legacy customer applications only.
	DSR Policy Proxy Per Server	This sub-product adds policy proxy to the Oracle Communications Diameter Signaling Router. Policy Proxy enables dynamic routing of subscriber sessions to PCRFs.
		Policy Proxy supports the following capabilities:
		• Distributes Gx/Gxx/S9/Rx sessions across PCRFs • Provides network-wide subscriber session binding • Provides session correlation across mated pairs • Performs topology hiding to hide the identities of the PCRFs from other elements in the network.
		Restrictions:
		This product SKU is for legacy customer applications only.

	DSR Charging Proxy OFCS Per Server	This sub-product adds off-line charging server proxy to the Oracle Communications Diameter Signaling Router. The off-line charging proxy supports a Diameter proxy agent over the Rf interface between multiple Charging Trigger Function (CTF) clients such as PGWs, SGWs, GGSNs, CSFCs, and multiple Charging Data Function (CDF) servers. The following features are provided with this sub-product: • Session/Subscriber Binding Repository • Charging Topology Hiding **Restrictions:** This product SKU is for legacy customer applications only.
	DSR Address Resolution Proxy Per Server	This sub-product adds full address resolution to the Oracle Communications Diameter Signaling Router. Full address resolution is an enhanced proxy routing application that routes end-to-end Diameter transactions based on app-id, Command Code, Routing Entity type and Individual Routing Entity. The following features are provided with this sub-product: • Subscriber Database Server – Provides provisioning and storage of large amounts of database information for full address resolution. Supports querying, reports and audits. • Database Processor – Provides real-time access to the subscriber database at the signaling node. • IMS HSS Address Resolution • LTE HSS Address Resolution **Restrictions:** This product SKU is for legacy customer applications only.
	DSR Roaming Proxy Per Server	This sub-product adds roaming proxy to the Oracle Communications Diameter Signaling Router. The following features are provided with this sub-product: • MME Topology Hiding • HSS Topology Hiding • Path Topology Hiding **Restrictions:** This product SKU is for legacy customer applications only.
	DSR Software Per lab	This sub-product provides access to all functionality in the Oracle Communications Diameter Signaling Router and all sub-products for non-production lab or test environments. **Restrictions:** This product SKU is for legacy customer applications only.

	DSR Diameter MPS Per Node	This sub-product includes base functionality of the Oracle Communications Diameter Signaling Router and determines the maximum number of nodal Messages per Second (MPS) allowed by Oracle Communications Diameter Signaling Router.
		The base functionality consists of: • Connections • Routes • Additional routing package • IPSec MPS • Diameter Mediation rules • Message copy • Message throttling • Remote Congestion control • LTE and IMS Range based address resolution • Per connection TPS controls
		An MPS is defined as:
		1. Processing of an ingress Diameter message and either transmitting a single outgoing message or discarding the ingress message. The outgoing message may be a variant of, or a response to, the ingress message.
		2. Transmission of any Diameter message that is associated with incremental actions/events associated with #1 above. For example, the re-routing of a Request upon connection failure or the copying of a Request.
		Messages excluded from this measure are: • Diameter peer-to-peer messages: CER/CEA, DWR/DWA, and DPR/DPA • Ingress Diameter messages discarded by the DSR due to Overload controls • Answers received in response to Message Copy
		Nodal MPS is calculated as the peak 5-minute interval of the signaling node. A node is defined as a network element that is managed by a single system operations, alarms and measurements server pair.
		Orderable in single MPS increments.
		Restrictions:
		This license is for specific legacy customer applications only.

	DSR Initial Content Per Server	This sub-product provides the base Oracle Communications Diameter Signaling Router functionality as follows: OAM – Operations, administration, measurements functionality including SNMP, event logs, security logs, configuration, topology, user/group management and reports. Core Routing – Core routing and processing functionality that provides application specific handling of real-time Diameter messages. Congestion Management – Ingress and egress, local and remote Diameter congestion control. Connection Management – TCP, SCTP uni- and multi-homing, IPv4-IPv6 interworking, IPSec, load balancing and capabilities exchange. Diameter Mediation – GUI-based Diameter mediation framework used to build mediation rules to resolve inter-operability issues. Range Based Address Resolution – Stateless diameter proxy routing application that routes Diameter end-to-end transactions based on application ID, command code, routing entity type and routing entity address ranges. IP Front End –TCP/SCTP connection based ingress load balancing which enables Diameter clients to access multiple Diameter Signaling Router servers via one or more virtual IP addresses. Geo-redundant – The Diameter Signaling Router can be deployed with or without geo-redundancy. High Availability – All message processing critical components are engineered with high levels of redundancy to ensure high availability. **Restrictions:** This product SKU is for legacy customer applications only.

	DSR 5 Initial Content Per Server	Thissub-product provides Oracle Communications Diameter Signaling Router functionality as follows:
		OAM – Operations, administration, measurements functionality including SNMP, event logs, security logs, configuration, topology, user/group management and reports.
		Core Routing – Core routing and processing functionality that provides application specific handling of real-time Diameter messages.
		Congestion Management – Ingress and egress, local and remote Diameter congestion control.
		Connection Management – TCP, SCTP uni- and multi-homing, IPv4-IPv6 interworking, IPSec, load balancing and capabilities exchange.
		Diameter Mediation – GUI-based Diameter mediation framework used to build mediation rules to resolve inter-operability issues.
		Range Based Address Resolution – Stateless diameter proxy routing application that routes Diameter end-to-end transactions based on application ID, command code, routing entity type and routing entity address ranges.
		Message Copy – Ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router.
		IP Front End –TCP/SCTP connection based ingress load balancing which enables Diameter clients to access multiple Diameter Signaling Router servers via one or more virtual IP addresses.
		Geo-redundant – The Diameter Signaling Router can be deployed with or without geo-redundancy.
		High Availability – All message processing critical components are engineered with high levels of redundancy to ensure high availability.
		Policy Proxy
		Off-Line Charging Proxy
		Roaming Proxy
		Message Copy
		Full Address Resolution Proxy
		Restrictions:
		This product SKU is for legacy customer applications only.
	DSR 5 Content Bundle Per Server	This sub-product adds all DSR 5.0 content to the Oracle Communications Diameter Signaling Router:
		Restrictions:
		This product SKU is for legacy customer applications only.

	DSR RMS Initial Content Per Server	This sub-product provides Oracle Communications Diameter Signaling Router functionality as follows:
		OAM – Operations, administration, measurements functionality including SNMP, event logs, security logs, configuration, topology, user/group management and reports.
		Core Routing – Core routing and processing functionality that provides application specific handling of real-time Diameter messages.
		Congestion Management – Ingress and egress, local and remote Diameter congestion control.
		Connection Management – TCP, SCTP uni- and multi-homing, IPv4-IPv6 interworking, IPSec, load balancing and capabilities exchange.
		Diameter Mediation – GUI-based Diameter mediation framework used to build mediation rules to resolve inter-operability issues.
		Range Based Address Resolution – Stateless diameter proxy routing application that routes Diameter end-to-end transactions based on application ID, command code, routing entity type and routing entity address ranges.
		Message Copy – Ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router.
		IP Front End –TCP/SCTP connection based ingress load balancing which enables Diameter clients to access multiple Diameter Signaling Router servers via one or more virtual IP addresses.
		Geo-redundant – The Diameter Signaling Router can be deployed with or without geo-redundancy.
		High Availability – All message processing critical components are engineered with high levels of redundancy to ensure high availability.
		Roaming Proxy
		Message Copy
		Restrictions:
		This product SKU is for legacy customer applications only.

		DSR Policy Proxy I Per Server	This sub-product adds policy proxy to the Oracle Communications Diameter Signaling Router. The policy proxy enables dynamic routing of subscriber sessions to PCRFs and supports the following capabilities: • Distributes Gx/Gxx/S9/Rx sessions across PCRFs • Provides network-wide subscriber session binding • Provides session correlation across mated pairs • Performs topology hiding to hide the identities of the PCRFs from other elements in the network. **Prerequisites:** A license to DSR Initial Content Per Server is a prerequisite to license and use DSR Policy Proxy I Per Server. **Restrictions:** This product SKU is for legacy customer applications only.
		DSR Full Address Resolution I Per Server	This sub-product adds full address resolution features to the Oracle Communications Diameter Signaling Router. Full address resolution is an enhanced proxy routing application that routes end-to-end Diameter transactions based on app-id, Command Code, Routing Entity type and Individual Routing Entity. The following features are provided with this sub-product: • Subscriber Database Server – Provides provisioning and storage of large amounts of database information for full address resolution. Supports querying, reports and audits. • Database Processor – Provides real-time access to the subscriber database at the signaling node. • IMS HSS Address Resolution • LTE HSS Address Resolution **Prerequisites:** A license to DSR Initial Content Per Server is a prerequisite to license and use DSR Full Address Resolution I Per Server **Restrictions:** This product SKU is for legacy customer applications only.
		EXG DSR Message Copy Per Node	This sub-product adds message copy capability to the Oracle Communications Diameter Signaling Router. Message Copy is the ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router. **Restrictions:** This product SKU is for legacy customer applications only.

		EXG DSR HSS Topology Hiding Per Node	This sub-product adds HSS Topology Hiding to the Oracle Communications Diameter Signaling Router. **Restrictions:** This product SKU is for legacy customer applications only.
		EXG DSR MME Topology Hiding Per Node	This sub-product adds MME Topology Hiding to the Oracle Communications Diameter Signaling Router. **Restrictions:** This product SKU is for legacy customer applications only.
		EXG DSR Path Topology Hiding Per Node	This sub-product adds Path Topology Hiding to the Oracle Communications Diameter Signaling Router. **Restrictions:** This product SKU is for legacy customer applications only.
		DSR Blacklisting Per Node	This sub-product adds Blacklisting support to the Oracle Communications Diameter Signaling Router. **Restrictions:** This product SKU is for legacy customer applications only.
		DSR User Config MSG Priority Per Node	This sub-product adds user configurable message priority to the Oracle Communications Diameter Signaling Router. **Restrictions:** This product SKU is for legacy customer applications only.
		DSR Message Copy Per Server	This sub-product adds message copy capability to the Oracle Communications Diameter Signaling Router. Message Copy is the ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router. **Restrictions:** This product SKU is for legacy customer applications only.
		DSR RMS Message Copy Per Server	This sub-product adds message copy capability to the rack-mount Oracle Communications Diameter Signaling Router. Message Copy is the ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router. **Restrictions:** This product SKU is for legacy customer applications only.

	DSR IPFE II Per Server	This sub-product adds IPFE features to the Oracle Communications Diameter Signaling Router. The IPFE features added by this sub-product are: • SCTP Multi-Homing for IPFE • Enhanced load balancing **Restrictions:** This product SKU is for legacy customer applications only.
	DSR RMS IPFE II Per Server	This sub-product adds IPFE features to the rack-mount Oracle Communications Diameter Signaling Router. The IPFE features added by this sub-product are: • SCTP Multi-Homing for IPFE • Enhanced load balancing **Restrictions:** This product SKU is for legacy customer applications only.
	DSR Core Routing III Per Server	This sub-product adds core routing features to the Oracle Communications Diameter Signaling Router. The core routing features added by this sub-product are: • Maximum message size of 30k bytes • Route group entries up to 160 • Enhanced pending answer timer configurations **Restrictions:** This product SKU is for legacy customer applications only.
	DSR RMS Core Routing III Per Server	This sub-product adds core routing features to the rack-mount Oracle Communications Diameter Signaling Router. The core routing features added by this sub-product are: • Maximum message size of 30k bytes • Route group entries up to 160 • Enhanced pending answer timer configurations **Restrictions:** This product SKU is for legacy customer applications only.
	DSR Roaming Proxy Topology Hiding I Per Server	This sub-product adds roaming proxy features to the Oracle Communications Diameter Signaling Router. The following features are added with this sub-product: • MME Topology Hiding • HSS Topology Hiding • Path Topology Hiding **Restrictions:** This product SKU is for legacy customer applications only.

| | DSR RMS Roaming Proxy Topology Hiding I Per Server | This sub-product adds roaming proxy features to the rack-mount Oracle Communications Diameter Signaling Router. The following features are added with this sub-product:

• MME Topology Hiding
• HSS Topology Hiding
• Path Topology Hiding

Restrictions:

This product SKU is for legacy customer applications only. |
| | DSR Full Address Resolution II Per Server | This sub-product adds full address resolution features to the Oracle Communications Diameter Signaling Router Full Address Resolution I license. The full address resolution features added by this sub-product are:
• Blacklisting support
• Ability to activate range and full address resolution on the same message

Restrictions:

This product SKU is for legacy customer applications only. |

Third-Party Commercial and Open Source Software

Commercial Software

Commercial software used in Oracle Communications Diameter Signaling Router is identified in the following table with the following license notes, restrictions, and disclaimers.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description/Disclaimer

Open Source Disclosure

Open Source Disclosure

Open source software used in Oracle Communications Diameter Signaling Router is identified in the following table with the following license notes, restrictions, and disclaimers. Additional open source software notices and licenses may be found in the Documentation or readme files of the products making up the individual components.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Red Hat	chkconfig v. 1.3.49.3	A system tool for maintaining the /etc/rc*.d hierarchy	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version
	rhpl v. 0.221	Library of Python code used by installation and configuration tools	GPL 2.0 - See APPENDIX A Copyright © Red Hat The chkconfig v. 1.3.49.3,rhpl v. 0.221, Gdbm v.1.8.0, e2fsprogs v.1.41.12, qemu-kvm v.0.12.1.2, PXELINUX v.4.02, Audit v.2.2 and Htop v.1.0.1-2.rf software and sample code developed by Red Hat is licensed under the General Public License 2.0.
	Gdbm v.1.8.0	hashing library	
	e2fsprogs v.1.41.12	filesystem utilities	
	qemu-kvm v.0.12.1.2	machine emulator and virtualizer	
	Htop v.1.0.1-2.rf	interactive process viewer for Linux	
	PXELINUX v.4.02	boots Linux from a network	
	Audit v.2.2	utilities for storing and searching audit records	
	Augeas v.1.0.0	configuration editing tool	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version
	Avahi v.0.6.25	zero-configuration networking implementation	LGPL-2.1 - See APPENDIX E Copyright © Red Hat The Augeas v.0.9.0, Avahi v.0.6.25, libcap-ng v.0.6.4, libcap-ng v.0.6.4, Libgcrypt v.1.4.5 and libdevmapper.so v.1.02.74 software and sample code developed by Ext JS, LLC is licensed under the General Public License 2.0
	libcap-ng v.0.6.4	POSIX programming library	
	Libgcrypt v.1.4.5	cryptographic library	
	libdevmapper.so v.1.02.74	Linux Kernel Device Mapper library	

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	libtool-ltdl v.2.2.6	library support script	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 3 of the License, or (at your option) any later version GPL 3.0 - See APPENDIX C Copyright© Red Hat The libtool-ltdl v.2.2.6 software and sample code developed by Red Hat is licensed under the General Public License 2.0.
Jason T. Collins	ctcs v. 1.3.0	VA Cerberus Test Control System	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version GPL 2.0 - See APPENDIX A Copyright © Jason T. Collins <jcollins@valinux.com> for VA Linux Systems The ctcs v. 1.3.0 software and sample code developed by Jason T Collins is licensed under the General Public License 2.0.
Theodore Ts'o	e2fsprogs-libs v. 1.39	Ext2 Filesystem Utilities	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version GPL 2.0 - See APPENDIX A Copyright © Theodore Ts'o The e2fsprogs-libs v. 1.39 software and sample code developed by Theodore Ts'o is licensed under the General Public License 2.0.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Philip A. Nelson ,Jason Downs, Sergey Poznyakoff	gdbm v. 1.8.0	A GNU set of database routines which use extensible hashing	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version

GPL 2.0 - See APPENDIX A

Copyright © Philip A. Nelson, Jason Downs, Sergey Poznyakoff

The gdbm v. 1.8.0 software and sample code developed by Philip A. Nelson ,Jason Downs, Sergey Poznyakoff is licensed under the General Public License 2.0. |
| Rusty Russell | iptables v. 1.4.7 | Tools for managing Linux kernel packet filtering capabilities | This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version

GPL 2.0 - See APPENDIX A

Copyright © Rusty Russell

The iptables v. 1.4.7 software and sample code developed by Rusty Russell is licensed under the General Public License 2.0. |
| Frodo Looijaard, Mark D. Studebaker, Jean Delvare | i2c-tools v. 3.0.0 | A heterogeneous set of I2C tools for Linux | This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version

GPL 2.0 - See APPENDIX A

Copyright © Frodo Looijaard, Mark D. Studebaker and Jean Delvare

The i2c-tools v. 3.0.0 software and sample code developed by Frodo Looijaard, Mark D. Studebaker, Jean Delvare is licensed under the General Public License 2.0. |

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Canonical Ltd	initscripts v. 9.03.31	The inittab file and the /etc/init.d scripts	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version GPL 2.0 - See APPENDIX A Copyright © Canonical Ltd. The initscripts v. 9.03.31 software and sample code developed by Canonical Ltd is licensed under the General Public License 2.0.
Jon Masters	module-init-tools v. 3.9	Kernel module management utilities.	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version GPL 2.0 - See APPENDIX A Copyright © Jon Masters jcm@jonmasters.org The module-init-tools v. 3.9 software and sample code developed by Jon Masters is licensed under the General Public License 2.0.
Linus Torvalds	kernel v. 2.6.32	The Linux kernel	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version GPL 2.0 - See APPENDIX A Copyright © Linus Torvalds The kernel v. 2.6.32 and Linux Kernal v. 2.6.32 software and sample code developed by Linus Torvalds is licensed under the General Public License 2.0.
Frodo Looijaard, Merlin Hughes, Bob Schlaermann, Mark M. Hoffman, Jean Delvare	lm_sensors v. 3.1.1	Linux monitoring sensors/ hardware monitoring	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version GPL 2.0 - See APPENDIX A Copyright © Frodo Looijaard, Merlin Hughes, Bob Schlaermann, Mark M. Hoffman, Jean Delvare The lm_sensors v. 3.1.1 software and sample code developed by Frodo Looijaard, Merlin Hughes, Bob Schlaermann, Mark M. Hoffman, Jean Delvare is licensed under the General Public License 2.0.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Igor Pavlov, Ville Koskinen and Lasse Collin	lzma v. 4.32.7	A few scripts which provide gzip-like command line interface and a couple of other LZMA related tools.	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version GPL 2.0 - See APPENDIX A Copyright © Igor Pavlov, Ville Koskinen and Lasse Collin The lzma v. 4.32.7software and sample code developed by Igor Pavlov, Ville Koskinen and Lasse Collin is licensed under the General Public License 2.0.
MicroWalt Corporation	net-tools v. 1.6	Basic networking tools	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version GPL 2.0 - See APPENDIX A Copyright © 1988-1994 MicroWalt Corporation, Copyright © 1995-1996 Bernd Eckenfels, Copyright © 1997-2000 Andi Kleen, Copyright © 1997-2000 Donald Becker The net-tools v. 1.6 software and sample code developed by MicroWalt Corporation, Bernd Eckenfels, Andi Kleen, Donald Becker is licensed under the General Public License 2.0.
Thomas Boutell	rinetd v. 0.62	TCP redirection server	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version GPL 2.0 - See APPENDIX A Copyright © Thomas Boutell The rinetd v. 0.62 software and sample code developed by Thomas Boutell is licensed under the General Public License 2.0.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Erik Troan and Marc Ewing	rpm v. 4.8.0	The RPM package management system	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version GPL 2.0 - See APPENDIX A Copyright © Erik Troan and Marc Ewing The rpm v. 4.8.0 software and sample code developed by Erik Troan and Marc Ewing is licensed under the General Public License 2.0.
Greg Kroah-Hartman	udev v. 147	A userspace implementation of devfs	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version GPL 2.0 - See APPENDIX A Copyright © Greg Kroah-Hartman The udev v. 147 software and sample code developed by Greg Kroah-Hartman is licensed under the General Public License 2.0.
Richard Archer	Phplib v.7.4	application development toolkit for PHP	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2.0 of the License, or (at your option) any later version LGPL-2 - See APPENDIX D Copyright © Richard Archer The Phplib v.7.4software and sample code developed by Richard Archer is licensed under the General Public License 2.0
Iptel.org	serweb-frmwrk v.1.0.6	Web Server Framework	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version GPL 2.0 - See APPENDIX A Copyright © Iptel.org The serweb-frmwrk v.1.0.6 software and sample code developed by Iptel.org is licensed under the General Public License 2.0.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Gentoo Foundation	Elfutils v.0.158	inspect and manipulate ELF files	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version

GPL 2.0 - See APPENDIX A

Copyright © Gentoo Foundation

The Elfutils v.0.152 and liblvm2cmd.so v.2.02.95 software and sample code developed by Gentoo Foundation is licensed under the General Public License 2.0. |
| | liblvm2cmd.so v.2.02.95 | LVM Library | |
| | libcap-ng v.0.6.4 | POSIX programming library | The Linux kernel This program is free software; you can redistribute it and/or modify it under the terms of the GNU Lessor General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version

LGPL 2.1 - See APPENDIX E

Copyright © Gentoo Foundation

libcap-ng v.0.6.4, Attr v.2.4.44, and Netcf v.0.1.9 software and sample code developed Gentoo Foundation is licensed under the General Public License 2.0. |
| | Attr v.2.4.44 | Web API Interface | |
| | Netcf v.0.2.4 | library for configuring network interfaces | |
| Scientific Linux | Numactl v.2.0.9 | NUMA scheduling / placement policy | This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version

GPL 2.0 - See APPENDIX A

Copyright © Scientific Linux

The Numactl v.2.0.7and keyutils-libs v.1.4 sample code developed by Scientific Linux is licensed under the General Public License 2.0. |
| | Keyutils v.1.4 | utilities for managing the key retention facility | |

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	Libnl v.1.1	Netlink API Library	The Linux kernel This program is free software; you can redistribute it and/or modify it under the terms of the GNU Lessor General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version
	Xz v.4.999.9	data compression software	
	keyutils-libs v.1.2	Utilities Library	LGPL 2.1 - See APPENDIX E
			Copyright © Scientific Linux
	Gnutls v.2.8.5	secure communications library	liblvm2cmd.so v.2.02.95, libgpg-error v.1.7, Libnl v.1.1, xz v.4.999.9, keyutils-libs v.1.2, and Gnutls v.2.8.5 software and sample code developed by Scientific Linux is licensed under the General Public License 2.0.
	libgpg-error v.1.7	library that defines common error values	
Tresys Technology	selinux-policy v. 3.7.19	SELinux policy configuration	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 3 of the License, or (at your option) any later version
	setools v. 3.3.7	Policy analysis tools for SELinux	GPL 3.0 - See APPENDIX C
			Copyright © Tresys Technology
			The selinux-policy v. 3.7.19 and setools v. 3.3.7 software and sample code developed by Tresys Technology is licensed under the General Public License 2.0.
Eric Sommerlade, Michael Feathers, Jerome Lacoste, Baptiste Lepilleur, Bastiaan Bakker, Steve Robbins	cppunit-1.12.1-3.1.e16	C++ Unit Testing Framework	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 3 of the License, or (at your option) any later version
			GPL 3.0 - See APPENDIX C
			Copyright© Eric Sommerlade, Michael Feathers, Jerome Lacoste, Baptiste Lepilleur, Bastiaan Bakker, Steve Robbins
			The cppunit-1.12.1-3.1.e16 software and sample code developed by Eric Sommerlade, Michael Feathers, Jerome Lacoste, Baptiste Lepilleur, Bastiaan Bakker, Steve Robbins is licensed under the General Public License 2.0.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Fedora Project	device-mapper-persistent-data 0.3.2	device-mapper thin provisioning tools	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 3 of the License, or (at your option) any later version GPL 3.0 - See APPENDIX C Copyright© Fedora Project The device-mapper-persistent-data software and sample code developed Fedora Project is licensed under the General Public License 2.0.
	Heartbeat v.2.1.4	Linux high-availability subsystem	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version GPL 2.0 - See APPENDIX A Copyright © Fedora Project The Heartbeat v.2.1.4 software and sample code developed by the Fedora Project is licensed under the General Public License 2.0.
New Digital Group, Inc.	Smarty v.3.0.8	template engine for PHP	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version LGPL-3 - See APPENDIX F Copyright © New Digital Group, Inc. The Smarty v.3.0.8software and sample code developed by New Digital Group, Inc. is licensed under the General Public License 2.0
The Ephox Enterprise TinyMCE	TinyMCE v.2.x	Javascript HTML editor	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version LGPL-2.1 - See APPENDIX E Copyright © The Ephox Enterprise TinyMCE The TinyMCE v.2.x and TinyMCE v.3.x software and sample code developed by The Ephox Enterprise TinyMCE is licensed under the General Public License 2.0
	TinyMCE v.3.x	Javascript HTML editor	

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
gtk2-perl team	Glib v. 1.231	Perl interface to GLib	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version GPL 2.1 - See APPENDIX B Copyright © 2003-2005 by the gtk2-perl team libgcc_s.so The Glib v. 1.231 software and sample code developed by gtk2-perl team is licensed under the General Public License 3.0.
	glib2 v.2.28.8	C Libraries	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version LGPL-2.1 - See APPENDIX E Copyright © gtk2-perl team The glib2 v.2.28.6, Glibc v.2.12, and Glibc v.2.5 software and sample code developed by gtk2-perl team is licensed under the General Public License 2.0
	Glibc v.2.12	C Libraries	
	Glibc v.2.5	C Libraries	
Colin Walters, Johan Dahlin, Matthias Clasen	gobject-introspection v. 0.10.8	Introspection system for GObject-based libraries	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version GPL 2.1 - See APPENDIX B Copyright © Colin Walters <walters@verbum.org>, Johan Dahlin <johan@gnome.org>, Matthias Clasen <mclasen@redhat.com> and j@bitron.ch The gobject-introspection v. 0.10.8 software and sample code developed by Colin Walters, Johan Dahlin, Matthias Clasen is licensed under the General Public License 2.1.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Raritan, Inc	kiratool v. 1.5.15	Tools for managing Intel's Remote Management Module (RMM)	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version GPL 2.1 - See APPENDIX B Copyright © Raritan, Inc. The kiratool v. 1.5.15 software and sample code developed by Raritan, Inc is licensed under the General Public License 2.0.
Daniel Veillard	libvirt v. 0.9.10	Library providing a simple virtualization API	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version GPL 2.1 - See APPENDIX B Copyright © Daniel Veillard veillard@redhat.com The libvirt v. 0.9.10 software and sample code developed by Daniel Veillard is licensed under the General Public License 2.0.
La Monte H. P. Yarroll, IBM Corp., Red Hat	lksctp-tools v. 1.0.11	User-space access to Linux Kernel SCTP	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version GPL 2.1 - See APPENDIX B Copyright © 2002 La Monte H. P. Yarroll; Copyright © 2002, 2004 IBM Corp.; Copyright © 2010, 2013 Red Hat The lksctp-tools v. 1.0.11 software and sample code developed by La Monte H. P. Yarroll, IBM Corp., Red Hat is licensed under the General Public License 2.0.
Kevin Atkinson	mysql++ v. 3.0.8	MySQL client programs and shared libraries	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version GPL 2.1 - See APPENDIX B Copyright © Kevin Atkinson The mysql++ v. 3.0.8 software and sample code developed by Kevin Atkinson is licensed under the General Public License 2.0.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Ryan Eatmon	perl-Net-XMPP v. 1.02_04	Net-XMPP Perl module	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version GPL 2.1 - See APPENDIX B Copyright © Ryan Eatmon The perl-Net-XMPP v. 1.02_04 software and sample code developed by Ryan Eatmon is licensed under the General Public License 2.0.
VMware Guest Components Team	open-vm-tools v. 0.0.0.217847	VMware Guest OS Tools	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version GPL 2.1 - See APPENDIX B Copyright © VMware Guest Components Team The open-vm-tools v. 0.0.0.217847 software and sample code developed by VMware Guest Components Team is licensed under the General Public License 2.0.
Emmanuele Bassi, muppet, Torsten Schöfeld	perl-Glib-Object-Introspection v.0.001.20110920git	Glib-Object-Introspection Perl module	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version GPL 2.1 - See APPENDIX B Copyright © Emmanuele Bassi, muppet, Torsten Schöfeld The perl-Glib-Object-Introspection v.0.001.20110920git software and sample code developed by Emmanuele Bassi, muppet, Torsten Schöfeld is licensed under the General Public License 2.0.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Darian Anthony Patrick, Ryan Eatmon, Thomas Charron, Jeremie	perl-XML-Stream v. 1.23_06	XML-Stream Perl module	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version GPL 2.1 - See APPENDIX B Copyright © Darian Anthony Patrick, Ryan Eatmon, Thomas Charron, Jeremie The perl-XML-Stream v. 1.23_06 software and sample code developed by Darian Anthony Patrick, Ryan Eatmon, Thomas Charron, Jeremie is licensed under the General Public License 2.0.
Seznam.cz, a.s., Jan Nemec	teng v. 2.0.4	Templating Engine	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version GPL 2.1 - See APPENDIX B Copyright © Seznam.cz, a.s., Jan Nemec The teng v. 2.0.4 software and sample code developed by Seznam.cz, a.s., Jan Nemec is licensed under the General Public License 2.0.
CentOS	Libsepol v.2.0.41	manipulating binary security policies	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version LGPL-2.1 - See APPENDIX E Copyright © CentOS The Libsepol v.2.0.41 software and sample code developed by CentOS is licensed under the General Public License 2.0
Free Software Foundation, Inc.	libtasn1 v.2.3	ASN.1 library used by GnuTLS	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version LGPL-2.1 - See APPENDIX E Copyright © Free Software Foundation, Inc. The libtasn1 v.2.3 software and sample code developed by Free Software Foundation, Inc. is licensed under the General Public License 2.0

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
GCC developers	gcc v.4.4.6	Compiler Collection	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version LGPL-2.1 - See APPENDIX E Copyright © GCC developers The gcc v.4.4.6, gcc v.4.1.2, libgcc_s.so v.4.4.6, and libgcc_s.so v.4.1.2 software and sample code developed by GCC developers is licensed under the General Public License 2.0
	gcc v.4.1.2	Compiler Collection	
	libgcc_s.so v.4.4.6	shared object linker points library	
	libgcc_s.so v.4.1.2	shared object linker points library	
Mandriva	Acl v.2.2.49	Access control list utilities	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version LGPL-2.1 - See APPENDIX E Copyright © Mandriva The Acl v.2.2.49 software and sample code developed by Mandriva is licensed under the General Public License 2.0
openSUSE	Libnuma v.2.0.7	scheduling / placement tool	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version LGPL-2.1 - See APPENDIX E Copyright © openSUSE The Libnuma v.2.0.7software and sample code developed by openSUSE is licensed under the General Public License 2.0
Simon Josefsson	Libidn v.1.18	internationalized string handling package	This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version LGPL-2.1 - See APPENDIX E Copyright © Simon Josefsson The Libidn v.1.18 software and sample code developed by Simon Josefsson is licensed under the General Public License 2.0

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Mozilla Public License Version 1.1	nss v. 3.16.2.3	Network Security Services	Licensed under the MPL License v. 1.1, and you may not use this file except in compliance with the License. You may obtain a copy of the License at: http://www.mozilla.org/MPL/1.1/ Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. Copyright © The Regents of the University of California, The Open Group, Network Computing Devices, Inc., X Consortium, Sun nss v. 3.13.5 Microsystems, Inc., Massachusetts Institute of Technology, Jean-loup Gailly, Mark Adler, Red Hat, Inc, RSA Security Inc., Netscape Communications Corporation, Michael J. Fromberger The nss v. 3.13.5 software and sample code developed by The Regents of the University of California, The Open Group, Network Computing Devices, Inc., X Consortium, Sun Microsystems, Inc., Massachusetts Institute of Technology, Jean-loup Gailly, Mark Adler, Red Hat, Inc, RSA Security Inc., Netscape Communications Corporation, Michael J. Frombergeris licensed under the Mozilla Public License Version 1.1
	nss-softokn v. 3.14.3	Network Security Services Softoken Module	See above MPL v.1.1 Copyright © The Regents of the University of California, The Open Group, Network Computing Devices, Inc., X Consortium, Sun The nss v. 3.13.5 software and sample code developed by The Regents of the University of California, The Open Group, Network Computing Devices, Inc., X Consortium, Sun Microsystems Inc., Netscape Communications Corporation, Michael J. Fromberger licensed under the Mozilla Public License Version 1.1

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	nss-util v. 3.16.2.3	Network Security Services Utilities Library	See above MPL v.1.1 Copyright © The Regents of the University of California, The Open Group, Network Computing Devices, Inc., X Consortium, RSA Security Inc., Sun Microsystems Inc. The nss v. 3.13.5 software and sample code developed by The Regents of the University of California, The Open Group, Network Computing Devices, Inc., X Consortium, RSA Security Inc., Sun Microsystems Inc. licensed under the Mozilla Public License Version 1.1
Mozilla Public License Version 2.0	nspr v. 4.10.6	Netscape Portable Runtime	Licensed under the MPL License v. 2.0, and you may not use this file except in compliance with the License. You may obtain a copy of the License at: http://www.mozilla.org/MPL/2.0/ Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. Copyright © Netscape Communications Corporation, Lucent Technologies, Student Information Processing Board of the Massachusetts Institute of nspr v. 4.9.1 Technology, The Regents of the University of California, Digital Equipment Corporation, Internet Systems Consortium, Inc.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description

Eclipse Foundation	Infocenter-3.4.2	Eclipse Standalone Help System	Eclipse Public License - v 1.0
			THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.
			1. DEFINITIONS
			"Contribution" means:
			    a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and
			    b) in the case of each subsequent Contributor:
			        i) changes to the Program, and
			        ii) additions to the Program;
			where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.
			"Contributor" means any person or entity that distributes the Program.
			"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.
			"Program" means the Contributions distributed in accordance with this Agreement.
			"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.
			2. GRANT OF RIGHTS
			    a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.
			    b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
			causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.
			c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.
			d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.
			3. REQUIREMENTS
			A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:
			a) it complies with the terms and conditions of this Agreement; and
			b) its license agreement:
			i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;
			ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;
			iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and
			iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange. When the Program is made available in source code form:
			a) it must be made available under this Agreement; and
			b) a copy of this Agreement must be included with each copy of the Program.
			Contributors may not remove or alter any copyright

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
			notices contained within the Program. Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution. 4. COMMERCIAL DISTRIBUTION Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense. For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages. 5. NO WARRANTY EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
			PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement , including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations. 6. DISCLAIMER OF LIABILITY EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. 7. GENERAL If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable. If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed. All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive. Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
			the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation. http://www.eclipse.org/legal/epl-v10.html Copyright © IBM The Infocenter-3.4.2-6.0.0_80.8.0.noarch software and sample code developed by Eclipse Foundation is licensed under the General Public License 2.0.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Zend Technologies, Ltd.	zend-framework v. 1.11.9	PHP Web Development Framework	Licensed under The Free BSD Project, and you may not use this file except in compliance with the License. You may obtain a copy of the License at: http://www.freebsd.org/copyright/freebsd-license.html Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. Neither the name of the nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. Copyright © Zend Technologies, Ltd. The zend-framework v. 1.11.9 software and sample code developed by Zend Technologies, Ltd.is licensed under the The Free BSD Project.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
memcached.org	memcached-1.2.6	Distriubted Memory Caching System	See above The Free BSD Project Copyright © memcached.org The memcached-1.2.6-5.0.0software and sample code developed by memcached.org licensed under the The Free BSD Project.
Sebastian Burgmann	PHPUnit-3.4.2	PHP Unit Testing Framework	See above The Free BSD Project Copyright © Sebastian Bergmann, et al(*mailto:sebastian@phpunit.de*) The PHPUnit-3.4.2 and software and php-channel-phpunit v. 1.0 sample code developed by Sebastian Burgmann licensed under the The Free BSD Project.
Sebastian Burgmann Dmitry Zenovich	php-channel-phpunit v. 1.0	Adds phpunit channel to PEAR	See above The Free BSD Project Copyright © Sebastian Bergmann, et al(*mailto:sebastian@phpunit.de*) The PHPUnit-3.4.2and software and php-channel-phpunit v. 1.0 sample code developed by Sebastian Burgmann licensed under the The Free BSD Project.
	php-pecl-runkit-1.0.21	Modify constants and user-defined classes and functions	See above The Free BSD Project Copyright © Dmitry Zenovich The php-pecl-runkit-1.0.21 software and sample code developed by Dmitry Zenovich licensed under The Free BSD Project.
Bryan Stansell	conserver v. 8.1.18	Serial console server daemon/client	See above The Free BSD Project Copyright © Bryan Stansell (bryan@conserver.com) The conserver v. 8.1.18 software and sample code developed by Bryan Stansell licensed under The Free BSD Project.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Andy Cress	ipmiutil v. 2.7.6	Provides easy-to-use IPMI server management utilities	See above The Free BSD Project Copyright © Andy Cress <arcress at users.sourceforge.net> The ipmiutil v. 2.7.6 software and sample code developed by Andy Cress licensed under The Free BSD Project.
IHTFP Consulting and SUSE Linux AG	ipsec-tools v. 0.8.0	IPsec user tools and utilities	See above The Free BSD Project Copyright © IHTFP Consulting and SUSE Linux AG The ipsec-tools v. 0.8.0 software and sample code developed IHTFP Consulting and SUSE Linux AG licensed under The Free BSD Project.
Dug Song	libdnet v. 1.12	Simple portable interface to lowlevel networking routines	See above The Free BSD Project Copyright © Dug Song The libdnet v. 1.12 software and sample code developed by Dug Song licensed under The Free BSD Project.
The PHP Group	php-pear-Auth-SASL v. 1.0.2	PEAR: Abstraction of various SASL mechanism responses	See above The Free BSD Project Copyright © 2001-2013 The PHP Group The php-pear-Auth-SASL v. 1.0.2, php-pear-MDB2 v. 2.4.1, and php-pear-PHPUnit v. 3.3.2 software and sample code developed by The PHP Group licensed under The Free BSD Project.
	php-pear-MDB2 v. 2.4.1	A merge of the PEAR::DB and Metabase php database abstraction layers	
	php-pear-PHPUnit v. 3.3.2	Regression testing framework for unit tests	

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Derick Rethans	php-pecl-xdebug v. 2.1.3	PECL package for debugging PHP scripts	See above The Free BSD Project Copyright © 2001-2013 The PHP Group The Infocenter-3.4.2-6.0.0_80.8.0.noarch, php-pear-MDB2 v. 2.4.1, and php-pear-PHPUnit v. 3.3.2 software and sample code developed by The PHP Group licensed under The Free BSD Project. See above The Free BSD Project Copyright © 2003-2012 Derick Rethans The php-pecl-xdebug v. 2.1.3 software and sample code developed by Derick Rethans licensed under The Free BSD Project.
David A. Holland	routed v. 0.17	The routing daemon which maintains routing tables.	See above The Free BSD Project Copyright © David A. Holland The routed v. 0.17 software and sample code developed by David A. Holland licensed under The Free BSD Project
WIDE Project, Emmanuel Dreyfus, SuSE Linux AG, Nuernberg, Germany, The Regents of the University of California, Todd C. Miller	racoon2-20100526a v. 6.0.0	IPsec IKEv1/IKEv2 Key exchange daemons	See above The Free BSD Project Copyright © 2004, 2005 WIDE Project, Copyright © 2004 Emmanuel Dreyfus, Copyright © 2004 SuSE Linux AG, Nuernberg, Germany, Copyright © 1991, 1993 The Regents of the University of California. All rights reserved. and Copyright © 1998 Todd C. Miller <Todd.Miller@courtesan.com> The racoon2-20100526a v. 6.0.0 software and sample code developed by WIDE Project, Emmanuel Dreyfus, SuSE Linux AG, Nuernberg, Germany, The Regents of the University of California, Todd C. Miller licensed under The Free BSD Project
Derek Martin	rssh v. 2.3.2	A restricted shell for scp or sftp	See above The Free BSD Project Copyright © Derek Martin < rssh-discuss@lists.sourceforge.net > The rssh v. 2.3.2 software and sample code developed by Derek Martin licensed under The Free BSD Project

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
The FreeBSD Project	unifdef v. 1.171	Unifdef tool for removing ifdef'd lines	See above The Free BSD Project Copyright © 1995-2013 The FreeBSD Project The unifdef v. 1.171 software and sample code developed by The FreeBSD Project licensed under The Free BSD Project
The Regents of the University of California (Contributed by Cristos Zoulas of Cornell University)	libedit v 2.11	Commandline Editing	See above The Free BSD Project Copyright © memcached.org The libedit v 2.11 software and sample code developed by The Regents of the University of California licensed under The Free BSD Project All rights reserved. This code is derived from software contributed to Berkeley by Christos Zoulas of Cornell University

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
The Dojo foundation	dojo-1.4.1	Javascript Web Development Toolkit	Licensed under The Free BSD Project (Modified), and you may not use this file except in compliance with the License. You may obtain a copy of the License at: http://www.freebsd.org/copyright/freebsd-license.html Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. Neither the name of the nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. Copyright © The Dojo foundation (dojofoundation.org) The dojo-1.4.1-5.0.0_50.1.0.noarch.rpm software and sample code developed by The Dojo foundation is licensed under the The Free BSD Project (Modified).

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Google Inc.	gperftools-libs-2.0-3.el6.2	Google Development and Tools Library	See above The Free BSD Project (Modified) Copyright © 1995-2013 The FreeBSD Project The gperftools-libs-2.0-3.el6.2 software and sample code developed by The FreeBSD Project licensed under The Free BSD Project (Modified)
The PHP Group	memcache-2.2.6	Interface to memcached daemon	Licensed under the PHP License, and you may not use this file except in compliance with the License. You may obtain a copy of the License at: http://www.php.net/license/3_01.txt Redistribution and use in source and binary forms, with or without modification, is permitted provided that the following conditions are met: **1.** Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. **2.** Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. **3.** The name "PHP" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact *mailto:group@php.net*. **4.** Products derived from this software may not be called "PHP", nor may "PHP" appear in their name,
	uploadprogress-1.0.3.1	Tracks progress of file upload	
	The PHP License, version 3.01	PHP Server-Side Scripting Language	
	php-pear-DB-1.7.13-1.fc8prerel	PEAR: Database Abstraction Layer	
	php-pear-Mail-1.1.14-2.fc8prerel	Provides an implementation of the SMTP protocol	

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	php-pear-Net-SMTP-1.3.1-1.fc10prerel	Network Socket Interface	without prior written permission from group@php.net. You may indicate that your software works in conjunction with PHP by saying "Foo for PHP" instead of calling it "PHP Foo" or "phpfoo." **5.** The PHP Group may publish revised and/or new versions of the license from time to time. Each version will be given a distinguishing version number. Once covered code has been published under a particular version of the license, you may always continue to use it under the terms of that version. You may also choose to use such covered code under the terms of any subsequent version of the license published by the PHP Group. No one other than the PHP Group has the right to modify the terms applicable to covered code created under this License. **6.** Redistributions of any form whatsoever must retain the following acknowledgment: "This product includes PHP software, freely available from <http://www.php.net/software/>". **7.** THIS SOFTWARE IS PROVIDED BY THE PHP DEVELOPMENT TEAM ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE PHP DEVELOPMENT TEAM OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This software consists of voluntary contributions made by many individuals on behalf of the PHP Group. The PHP Group can be contacted via Email at _mailto:group@php.net_. For more information on the PHP Group and the PHP project, please see <http://www.php.net>. PHP includes the Zend Engine, freely available at http://www.zend.com Copyright © The PHP Group (us1.php.net), Copyright © The PHP Group. All rights reserved. Licensed under the PHP License, and you may not use this file except in compliance with the License. You may obtain a copy of the License at: http://www.php.net/license/3_01.txt Redistribution and use in source and binary forms,

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
The Apache Software Foundation version 1.1	log4cplus-1.0.2	C++ Logging API	Licensed under the Apache License v. 1.1, and you may not use this file except in compliance with the License.
	log4cplus-1.0.2	C++ Logging API	APACHE 1.1- See APPENDIX G Copyright © 2000 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Ant-Contrib Tasks-1.0b3	Collection of tasks for Apache Ant	Licensed under the Apache License v. 1.1, and you may not use this file except in compliance with the License. APACHE 1.1- See APPENDIX G Copyright © 2000 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
The Apache Software Foundation version 2.0	Spring Framework-4.0.1.RELEASE	Application framework and inversion of control container for the Java platform	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	Jasypt-1.9.2	Java library which allows the developer to add basic encryption capabilities	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	RESTeasy-2.3.3.Final	Framework to build RESTful Web Services and RESTful Java applications.	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Standard Taglib-1.1.2	Implementation of the JSP Standard Tag Library (JSTL)	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	Maven Ant Tasks-2.1.3	Mavent Ant Tasks allow several of Maven's artifact handling features to be used from within an Ant build	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	POI-3.2-FINAL	Java API for Microsoft Documents	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	JDOM-1.0	Tool for accessing, manipulating, and outputting XML data from Java code	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	MX4J-3.0.1	Open Source implementation of the Java Management Extensions (JMX)	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Quartz Scheduler-1.7.3	Job scheduling library	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	CXF-2.6.9	Open source services framework	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	xerces-c v.2.7.0	C++ XML Parsing Utility	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Xerces Java XML Parser v.2.90,2.9.1	XML library	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Ant v 1.6 or higher	Build tool	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	Apache Camel v.2.13	Routing/mediatio engine	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Log4j v.1.2	Logging service	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache ServiceMix v.4.4.2	SOA container	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	Apache Xerces v.2.7.1	XML library	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Myfaces v.1.0.2, 1.1.6	JavaServer Faces implementation	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Web Services Axis v.1.1	SOAP service	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	Apache Myfaces v.1.2.7	JavaServer Faces implementation	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Myfaces Trinidad v.1.0.1	UI Widget Library	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Myfaces Trinidad v.1.2.13	UI Widget Library	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	Apache Commons Beanutils v.1.7.0	Wrappers around the Java reflection and introspection APIs	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Commons Codec v.1.3	encoding/decoding algorithms	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Commons Collections v.1.3	Extension to Java Collections	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	Apache Commons DBCP v.1.2	Database connection pooling services	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Commons EL v.1	Interpreter	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Commons HTTPClient v.3.1	HTTP client service	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	Apache Commons Fileupload v.1.1.1	Utility	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Commons IO v.1.2	I/O Utilites	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Commons Lang v.2.1	Java Language extensions	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	Apache Commons Logging v.1.0.4	Wrapper for logging APIs	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Commons Net v.1.4.1	Network utilities	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Commons Pool v.1.2	Generic object pooling component	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	Apache Commons Validator v.1.0.2	Framework for xml file validators	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Commons VFS v.2	Virtual file system	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Commons Digester v.1.6	Mapping utility	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	Apache Jakcarta JSTL v.1.1.2	Standard Tag Library	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Jarkarta Log4J v.1.2.8	Logging service	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache-XML Batik v.1.7	SVG Toolkit	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	Apache Jakcarta JSTL v.1.2	Standard Tag Library	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Jarkarta ORO v.2.0.6	Text processors	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Jarkarta Struts v.1.1	Framework	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	Apache Jarkarta Struts-Legacy v.1	Framework	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Commons Digester v.1.7	Mapping utility	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Commons CSV v.2.0.1	Reader/Writer for CVS files	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	Apache Xerces v.2.6	XML library	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Commons Collections v.3.1	Extension to Java Collections	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Jakarta Regexp v.1.3	Regular Expressions parser	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	Apache Harmony v.5.0	Java implementation	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Myfaces Tomahawk v.1.1.0	UI Widget Library	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Felix v.1.4.1	OSGi framework	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	Apache Commons Lang v.1.0.1	Wrapper for logging APIs	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache JetSpeed v.2	Open portal platform	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Tomcat v.4	Web server	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	Apache Jakarta Commons Resources v.0.1	Java resources	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Jakarta Commons Collections v.3.2	Java components	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Jakarta DBCP v.1.2.2	Database connection pooling services	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	Apache Jakarta Fileupload v.1.2.1	File upload utility	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Jakarta Commons IO v.1.4	I/O Utilites	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Jakarta Commons Logging v.1.1	Wrapper for logging APIs	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	Apache Jakarta Commons Pool v.1.3	Object pooling component	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Commons Discovery v.0.2	Mapping tools	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Log Kit v.1.0.1	Logging toolkit	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	Apache Commons Configuration v.1	Extension to Java Collections	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Portal Jetspeed v.1.4	Open portal platform	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
	Apache Directory Studio v.2.0.0	Directory tools	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. APACHE 2.0- See APPENDIX H Copyright © 2004 The Apache Software Foundation. All rights reserved. This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>. Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	Apache v.2	HTTP server	Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License.
			APACHE 2.0- See APPENDIX H
			Copyright © 2004 The Apache Software Foundation. All rights reserved.
			This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see <http://www.apache.org/>.
			Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.
Douglas C. Schmidt	Ace	The ADAPTIVE Communication Environment (ACE(TM))	Licensed under the DOC Software License, and you may not use this file except in compliance with the License. You may obtain a copy of the License at
			http://www.cs.wustl.edu/~schmidt/ACE-copying.html.
			Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.
			Copyright © Douglas C. Schmidt
			The Ace, ace-6.0.1 , and Ace-6.0.1-6.0.0_80.1.0 software and sample code developed by Douglas C. Schmidt licensed under DOC Software.
	ace-6.0.1	The ADAPTIVE Communication Environment (ACE(TM))	Licensed under the DOC Software License, and you may not use this file except in compliance with the License. You may obtain a copy of the License at
	Ace-6.0.1	The ADAPTIVE Communication Environment (ACE(TM))	http://www.cs.wustl.edu/~schmidt/ACE-copying.html.
			Unless required by applicable law or agreed to in writing, software distributed under the License is

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Massachusetts Institute of Technology	curlpp-0.7.3-1	C++ Wrapper for libcURL	distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. Copyright © Douglas C. Schmidt The Ace, ace-6.0.1 , and Ace-6.0.1 software and sample code developed by Douglas C. Schmidt licensed under DOC Software. Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions: The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A ARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. Copyright © <2002-2004> <Jean-Philippe Barrette-LaPierre> The curlpp-0.7.3-1 software and sample code developed by Jean-Philippe Barrette-LaPierre> licensed under Massachusetts Institute of Technology.
Massachusetts Institute of Technology	perl-Module-Signature v. 0.55	Signature File Manipulation Module	See above Massachusetts Institute of Technology Copyright © Audrey Tang The perl-Module-Signature v. 0.55 software and sample code developed by Jean-Philippe Barrette-LaPierre> licensed under Massachusetts Institute of Technology.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	perl-Try-Tiny v. 0.11	Perl Try/Catch Implementation	See above Massachusetts Institute of Technology Copyright © Yuval Kogman The perl-Try-Tiny v. 0.11 software and sample code developed by Yuval Kogman licensed under Massachusetts Institute of Technology.
	php-pear-Log v. 1.11.2	PEAR Logging Framework	See above Massachusetts Institute of Technology Copyright © Jon Parise, Chuck Hagenbuch, Jan Schneider The php-pear-Log v. 1.11.2 software and sample code developed by Jon Parise, Chuck Hagenbuch, Jan Schneider licensed under Massachusetts Institute of Technology.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Open Market, Inc.	perl-FCGI-0.74	Fast CGI script module	Licensed under the Open Market License, and you may not use this file except in compliance with the License. You may obtain a copy of the License at: https://fedoraproject.org/wiki/Licensing/Open_Market_License This FastCGI application library source and object code (the "Software") and its documentation (the "Documentation") are copyrighted by Open Market, Inc ("Open Market"). The following terms apply to all files associated with the Software and Documentation unless explicitly disclaimed in individual files. Open Market permits you to use, copy, modify, distribute, and license this Software and the Documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this Software and Documentation may be copyrighted by their authors and need not follow the licensing terms described here. If modifications to this Software and Documentation have new licensing terms, the new terms must be clearly indicated on the first page of each file where they apply. OPEN MARKET MAKES NO EXPRESS OR IMPLIED WARRANTY WITH RESPECT TO THE SOFTWARE OR THE DOCUMENTATION, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL OPEN MARKET BE LIABLE TO YOU OR ANY THIRD PARTY FOR ANY DAMAGES ARISING FROM OR RELATING TO THIS SOFTWARE OR THE DOCUMENTATION, INCLUDING, WITHOUT LIMITATION, ANY INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES OR SIMILAR DAMAGES, INCLUDING LOST PROFITS OR LOST DATA, EVEN IF OPEN MARKET HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE SOFTWARE AND DOCUMENTATION ARE PROVIDED "AS IS". OPEN MARKET HAS NO LIABILITY IN CONTRACT, TORT, NEGLIGENCE OR OTHERWISE ARISING OUT OF THIS SOFTWARE OR THE DOCUMENTATION Copyright © Sven Verdoolaege, Open Market, Inc

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
United States Geological Survey	perl-LSI-MegaSAS-1.02	Perl interface to monitor LSI MegaRAID controllers	perl-LSI-MegaSAS-1.02 is released to the public domain: This software is in the public domain because it contains materials that originally came from the United States Geological Survey, an agency of the United States Department of Interior. For more information, see the official USGS copyright policy at *http://www.usgs.gov/visual-id/credit_usgs.html#copyright*.
Mark-Jason Dominus, Plover Systems co.	perl-Devel-Trace v. 0.11	Prints each line before execution	perl-Devel-Trace v. 0.11 is released to the public domain: The author or authors of this code dedicate any and all copyright interest in this code to the public domain. We make this dedication for the benefit of the public at large and to the detriment of our heirs and successors. We intend this dedication to be an overt act of relinquishment in perpetuity of all present and future rights to this code under copyright law. Copyright © Mark-Jason Dominus, Plover Systems co.
US Army Ballistics Research Lab	ttcp v. 1.12	Network Throughput measuring Utility	ttcp v. 1.12 is released to the public domain: The author or authors of this code dedicate any and all copyright interest in this code to the public domain. We make this dedication for the benefit of the public at large and to the detriment of our heirs and successors. We intend this dedication to be an overt act of relinquishment in perpetuity of all present and future rights to this code under copyright law. Copyright © US Army Ballistics Research Lab

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
The RE2 Authors	re2 v 20130115-2	Regular Expression Library	Licensed under The Free BSD Project (Style), and you may not use this file except in compliance with the License. You may obtain a copy of the License at: http://www.freebsd.org/copyright/freebsd-license.html Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. Neither the name of the nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. Copyright © 2009 The RE2 Authors. All rights reserved. The re2 v 20130115-2 software and sample code developed by The Dojo foundation is licensed under the The Free BSD Project (Style).

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Wei Dai	Crypto++ v 5.6.1	C++ Cryptography Library	Permission is hereby granted, free of charge, to any person or organization obtaining a copy of the software and accompanying documentation covered by this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following: The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor. THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE The Crypto++ v 5.6.1software and sample code developed by The Wei Dai is licensed under the The Boost project / C++ Standards Committee Library Working Group.
Hewlett-Packard Development Company, L.P.	hp-health v. 9.1.0.42	A network performance benchmark	Licensed under the Hewlett-Packard Development Company, L.P. License, and you may not use this file except in compliance with the License. You may obtain a copy of the License at: http://www.hpenterprisesecurity.com/collateral/copyright/ThirdParty_Copyright_Notices_and_License_Terms.pdf Copyright © Hewlett-Packard Company
	hponcfg v. 4.0.0	A network performance benchmark	

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
William D Norcott	iozone v. 3	iozone-3-315.i386.rpm	License to freely use and distribute this software is hereby granted by the author, subject to the condition that this copyright notice remains intact. The author retains the exclusive right to publish derivative works based on this work, including, but not limited to, revised versions of this work. THIS SOFTWARE IS PROVIDED BY DON CAPPS AND THE IOZONE CREW "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE. Freeware license Copyright © Mark-Jason Dominus, Plover Systems co.
Kontron America, Inc.	ipmimisc v. 1.2.0	Kontron IPMI (Onboard Management) Utilities	Licensed under the 2-clause BDS License, and you may not use this file except in compliance with the License. You may obtain a copy of the License at: http://us.kontron.com/about-kontron/terms-conditions/ Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. Copyright © Kontron America, Inc.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Mike D. Schiffman	libnet v. 1.1.2.1	Routines to help with network packet construction and handling	Licensed under The Free BSD Project, and you may not use this file except in compliance with the License. You may obtain a copy of the License at: http://www.freebsd.org/copyright/freebsd-license.html Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. Neither the name of the nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. Copyright © 1998 - 2002 Mike D. Schiffman mike@infonexus.com http://opensource.org/licenses/BSD-2-Clause The libnet v. 1.1.2.1software and sample code developed by Mike D. Schiffman is licensed under the The Free BSD Project.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Hewlett-Packard Development Company, L.P.	kmod-hpsa v. 3.1.0	HP Smart Array Controller Kernel Modules	Licensed under the Hewlett-Packard Development Company, L.P. License, and you may not use this file except in compliance with the License. You may obtain a copy of the License at: http://www.hpenterprisesecurity.com/collateral/copyright/ThirdParty_Copyright_Notices_and_License_Terms.pdf Copyright © Hewlett-Packard Company The kmod-hpsa v. 3.1.0 software and sample code developed by Hewlett-Packard Development Company, L.P. is licensed under the GPLv2+ License
Igor Pavlov, Ville Koskinen and Lasse Collin	lzma v. 4.32.7	A few scripts which provide gzip-like command line interface and a couple of other LZMA related tools.	Copyright © Igor Pavlov, Ville Koskinen and Lasse Collin The lzma v. 4.32.7 software and sample code developed by Hewlett-Packard Development Company, L.P. is licensed under the GPLv2+ License
QLogic License	scli v. 1.7.1	SANsurfer Comand Line Interface	Licensed under the QLogic License, and you may not use this file except in compliance with the License. You may obtain a copy of the License at: http://www.qlogic.com/CompanyInfo/Pages/TermsConditions.aspx Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. Copyright © QLogic Corporation http://www.qlogic.com/supportx0/agreement.asp

Vendor	Product(s) and Version(s)	Functionality	Licensing Description

OpenSSL license	OpenSSL v 1.0.1e	Open-Source Cryptography and Security Toolkit for SSL/TLS	Licensed under the OpenSSL License, and you may not use this file except in compliance with the License. You may obtain a copy of the License at:
			
			 http://www.openssl.org/source/license.html
			
			 Copyright © 1998-2011 The OpenSSL Project. All rights reserved.
			
			  Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
			
			  1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
			 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
			 3. All advertising materials mentioning features or use of this software must display the following acknowledgment:
			 This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
			 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact openssl-core@openssl.org.
			 5. Products derived from this software may not be called "OpenSSL" nor may "OpenSSL" appear in their names without prior written permission of the OpenSSL Project.
			 6. Redistributions of any form whatsoever must retain the following acknowledgment: "This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/)"
			
			 THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY * EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
			CONTRACT, STRICT LIABILITY,OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. Copyright © 1998-2011 The OpenSSL Project. All rights reserved.
gSOAP License	gsoap v. 2.8.0	SOAP/XML data bindings Toolkit?	Licensed under the gSOAP License, and you may not use this file except in compliance with the License. You may obtain a copy of the License at: http://www.cs.fsu.edu/~engelen/license.html Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. gSOAP is copyrighted by Robert A. van Engelen, Genivia, Inc, Copyright © 2000-2010 Robert A. van Engelen, Genivia, Inc. All Rights Reserved.
Hewlett-Packard Development Company, L.P.	hpacucli v. 9	HP Smart Array storage controller CLI	Licensed under the Hpacucli License, and you may not use this file except in compliance with the License. You may obtain a copy of the License at: http://www.hpenterprisesecurity.com/collateral/copyright/ThirdParty_Copyright_Notices_and_License_Terms.pdfUnless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. Copyright © Hewlett-Packard Company File Licensed Under the hpacucli License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Hewlett-Packard Development Company, L.P.	hpadu v. 9	HP Storage Controller and Disk Drive Diagnostic Utility	Licensed under the Hpacucli License, and you may not use this file except in compliance with the License. You may obtain a copy of the License at: http://www.hpenterprisesecurity.com/collateral/copyright/ThirdParty_Copyright_Notices_and_License_Terms.pdfUnless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. Copyright © Hewlett-Packard Company File Licensed Under the hpadu License .
G. Sarathy	perl-Alias	Alias-Perl module	Licensed under the Artistic License, and you may not use this file except in compliance with the License. You may obtain a copy of the License at: http://opensource.org/licenses/Artistic-1.0 http://opensource.org/licenses/Artistic-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License You may obtain a standard version of the above program here: *http://support.tekelec.com* The following files differ from the standard version of the program: None. Copyright © G. Sarathy gsar@umich.edu The perl-Alias software and sample code developed by G. Sarathy is licensed under Artistic License.
Graham Barr	perl-Error	Error-Perl module	See above Artistic License Copyright © Graham Barr gbarr@pobox.com The perl-Error software and sample code developed by Graham Barr is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Neil Neely	perl-Data-Validate-IP-0.14	Data-Validate-IP Perl module	See above Artistic License Copyright © Neil Neely The perl-Data-Validate-IP-0.14 software and sample code developed by Neil Neely is licensed under Artistic License.
Eugene van der Pijll	perl-DateTime-Format-Epoch-0.13	DateTime-Format-Epoch Perl module	See above Artistic License Copyright © Eugene van der Pijll The perl-DateTime-Format-Epoch-0.13 software and sample code developed by Eugene van der Pijll is licensed under Artistic License.
Richard Evans, David Rolsky	perl-DateTime-Locale-0.45	DateTime-Locale Perl module	See above Artistic License Copyright © Richard Evans, David Rolsky The perl-DateTime-Locale-0.45 software and sample code developed by Richard Evans, David Rolsky is licensed under Artistic License.
Dave Rolsky	perl-DateTime-TimeZone-1.41	DateTime-TimeZone Perl module	See above Artistic License Copyright © Dave Rolsky The perl-Error software and sample code developed by Dave Rolsky is licensed under Artistic License.
openSUSE	perl-DateTime-0.7	DateTime-Perl module	See above Artistic License Copyright © openSUSE The perl-DateTime-0.7software and sample code developed by openSUSE is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Hermetica, Alligator, Descartes, Tim Bunce	perl-Devel-CoreStack-1.3	Devel-CoreStack Perl module	See above Artistic License Copyright © Hermetica, Alligator Descartes, Tim Bunce The perl-Devel-CoreStack-1.3 software and sample code developed by Hermetica, Alligator, Descartes, Tim Bunce is licensed under Artistic License.
Jeff Weisberg	perl-Devel-Profile-1.05	Devel-Profile Perl module	See above Artistic License Copyright © Jeff Weisberg The perl-Devel-Profile-1.05 software and sample code developed by Jeff Weisberg is licensed under Artistic License.
Bill Birthisel, Kees Cook	perl-Device-SerialPort-1.04	Device-SerialPort Perl module	See above Artistic License Copyright © Bill Birthisel, Kees Cook The perl-Device-SerialPort-1.04 software and sample code developed by Bill Birthisel, Kees Cook is licensed under Artistic License.
Jesse Luehrs	perl-Dist-CheckConflicts-0.02	Dist-CheckConflicts Perl module	See above Artistic License Copyright © Jesse Luehrs The perl-Dist-CheckConflicts-0.02 software and sample code developed by Jesse Luehrs is licensed under Artistic License.
Casey West	perl-Email-Address-1.892	Email-Address Perl module	See above Artistic License Copyright © Casey West The perl-Email-Address-1.892 software and sample code developed by Casey West is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Austin Schutz, Roland Giersig	perl-Expect-5.44.1.15 noarch.rpm	Expect Perl module	See above Artistic License Copyright © Austin Schutz, Roland Giersig The perl-Expect-5.44.1.15 noarch.rpm software and sample code developed by Austin Schutz, Roland Giersig is licensed under Artistic License.
Paolo Molaro, muppet, Gtk2 project	perl-ExtUtils-Depends-0.304	ExtUtils-Depends Perl module	See above Artistic License Copyright © Paolo Molaro, muppet, Gtk2 project The perl-ExtUtils-Depends-0.304 software and sample code developed by Paolo Molaro, muppet, Gtk2 project licensed under Artistic License.
Yves Orton, Michael Schwern, Alan Burlison, Randy W. Sims	perl-ExtUtils-Install-1.54	ExtUtils-Install Perl module	See above Artistic License Copyright © Yves Orton, Michael Schwern, Alan Burlison, Randy W. Sims The perl-ExtUtils-Install-1.54 software and sample code developed by Yves Orton, Michael Schwern, Alan Burlison, Randy W. Sims is licensed under Artistic License.
Andreas Koenig	perl-ExtUtils-Manifest-1.60	ExtUtils-Manifest Perl module	See above Artistic License Copyright © Andreas Koenig The perl-ExtUtils-Manifest-1.60 software and sample code developed by Andreas Koenig is licensed under Artistic License.
muppet, Ross McFarland, and the gtk2-perl team	perl-ExtUtils-PkgConfig-1.12	ExtUtils-PkgConfig Perl module	See above Artistic License Copyright © muppet, Ross McFarland, and the gtk2-perl team The perl-ExtUtils-PkgConfig-1.12 software and sample code developed by muppet, Ross McFarland, and the gtk2-perl team is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Jeff Pinyan	perl-File-chmod-0.32	File-chmod Perl module	See above Artistic License Copyright © Jeff Pinyan The perl-File-chmod-0.32 software and sample code developed by Jeff Pinyan is licensed under Artistic License.
Andreas Fitzner, Michael Hendricks	perl-File-LibMagic-0.96	File-LibMagic Perl module	See above Artistic License Copyright © Andreas Fitzner, Michael Hendricks The perl-File-LibMagic-0.96 software and sample code developed by Andreas Fitzner, Michael Hendricks is licensed under Artistic License.
Lee Eakin	perl-File-Rsync-0.42	File-Rsync Perl module	See above Artistic License Copyright © Lee Eakin The perl-File-Rsync-0.42 software and sample code developed by Lee Eakin is licensed under Artistic License.
Salvador Fandino	perl-File-Tee v. 0.07	File-Tee Perl module	See above Artistic License Copyright © 2007, 2008, 2010, 2011 by Salvador Fandino *mailto:sfandino@yahoo.com*. The perl-File-Tee v. 0.07 and perl-Regexp-IPv6-0.03 software and sample code developed by Salvador Fandino is licensed under Artistic License.
	perl-Regexp-IPv6-0.03	Regexp Perl module	

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Ian Guthrie	perl-Filesys-Df-0.92	File-Filesys-Df Perl module	See above Artistic License Copyright © 2007, 2008, 2010, 2011 by Salvador Fandino mailto:sfandino@yahoo.com. The perl-File-Tee v. 0.07 and perl-Regexp-IPv6-0.03 software and sample code developed by Salvador Fandino is licensed under Artistic License. See above Artistic License Copyright © Ian Guthrie The perl-Filesys-Df-0.92 software and sample code developed by Ian Guthrie is licensed under Artistic License.
Jochen Stenzel	perl-Getopt-ArgvFile-1.11	Getopt-ArgvFile Perl module	See above Artistic License Copyright © Jochen Stenzel The perl-Getopt-ArgvFile-1.11 software and sample code developed by Jochen Stenzel is licensed under Artistic License.
Gisle Aas Peter Behroozi	perl-HTTP-Daemon-SSL-1.05_01	HTTP-Daemon-SSL Perl module	See above Artistic License Copyright © Gisle Aas, Peter Behroozi The perl-HTTP-Daemon-SSL-1.05_01 software and sample code developed by Gisle Aas , Peter Behroozi is licensed under Artistic License.
Lincoln Stein	perl-IO-Interface-1.06	IO-Interface Perl module	See above Artistic License Copyright © Lincoln Stein The perl-IO-Interface-1.06 software and sample code developed by Lincoln Stein is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Nicholas J Humfrey , Lincoln Stein	perl-IO-Socket-Multicast6-0.03	IO-Socket Perl module	See above Artistic License Copyright © Nicholas J Humfrey , Lincoln Stein The perl-IO-Socket-Multicast6-0.03 software and sample code developed by Nicholas J Humfrey, Lincoln Stein is licensed under Artistic License.
Alan Citterman, MakamakaHannyaharamitu, H.Merijn Brand for PROCURA B.V., Jochen Wiedmann, Alan Citterman	perl-Text-CSV-1.21	Text-CSV Perl module	See above Artistic License Copyright © Alan Citterman, Makamaka Hannyaharamitu, H.Merijn Brand for PROCURA B.V., Jochen Wiedmann, Alan Citterman The perl-Text-CSV-1.21 software and sample code developed by Alan Citterman, Makamaka Hannyaharamitu, H.Merijn Brand for PROCURA B.V., Jochen Wiedmann, Alan Citterman is licensed under Artistic License.
Nick Ing-Simmons	perl-Tk-804.028	Tk Perl module	See above Artistic License Copyright © Nick Ing-Simmons The perl-Tk-804.028 software and sample code developed by Nick Ing-Simmons is licensed under Artistic License.
Ricardo Signes	perl-Version-Requirements-0.101020	Version-Requirements Perl module	See above Artistic License Copyright © Ricardo Signes The perl-Version-Requirements-0.101020 and perl-Test-Fatal-0.006 software and sample code developed by Ricardo Signes is licensed under Artistic License.
	perl-Test-Fatal-0.006	Test-Fatal Perl module	

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Mark Mc Keown	perl-WSRF-Lite-0.8.3.0	WSRF-Lite Perl module	See above Artistic License Copyright © Ricardo Signes The perl-Version-Requirements-0.101020 and perl-Test-Fatal-0.006 software and sample code developed by Ricardo Signes is licensed under Artistic License. See above Artistic License Copyright © Mark Mc Keown The perl-WSRF-Lite-0.8.3.0 software and sample code developed by Mark Mc Keown is licensed under Artistic License.
Enno Derksen	perl-XML-Checker-0.13	XML-Checker Perl module	See above Artistic License Copyright © Enno Derksen The perl-XML-Checker-0.13 and perl-XML-XQL-0.68 software and sample code developed by Enno Derksen is licensed under Artistic License.
	perl-XML-XQL-0.68	XML-XQL Perl module	See above Artistic License Copyright © Enno Derksen The perl-XML-Checker-0.13 and perl-XML-XQL-0.68 software and sample code developed by Enno Derksen is licensed under Artistic License. See above Artistic License Copyright © Nikolay Pelov The perl-Authen-PAM-0.16 software and sample code developed by Nikolay Pelov is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Nikolay Pelov	perl-Authen-PAM-1.1.1	Authen-PAM Perl module	See above Artistic License Copyright © Nikolay Pelov The perl-Authen-PAM-1.1.1software and sample code developed by Nikolay Pelov is licensed under Artistic License.
Carl Declerck	perl-Authen-Radius-0.13-1.el5.centosprerel	Authen-Radius Perl module	See above Artistic License Copyright © 1997 Carl Declerck The perl-Authen-Radius-0.13-1.el5.centosprerel software and sample code developed by Carl Declerck is licensed under Artistic License.
Shawn M Moore	perl-Class-Load-0.12	Class-Load Perl module	See above Artistic License Copyright © Shawn M Moore The perl-Class-Load-0.12 software and sample code developed by Shawn M Moore is licensed under Artistic License.
Steffen Mueller	perl-Class-XSAccessor-1.12	Class-XSAccessor Perl module	See above Artistic License Copyright © Steffen Mueller The perl-Class-XSAccessor-1.12 software and sample code developed by Steffen Mueller is licensed under Artistic License.
Marc Lehmann, Robin Redeker	perl-common-sense-3.4	common-sense Perl module	See above Artistic License Copyright © Marc Lehmann, Robin Redeker The perl-common-sense-3.4 software and sample code developed by Marc Lehmann, Robin Redeker is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Scott Hutton, Rich Bowen, Jeremy Wadsack, Shlomi Fish	perl-Config-IniFiles-2.68	Config-IniFiles Perl module	See above Artistic License Copyright © Scott Hutton, Rich Bowen, Jeremy Wadsack, Shlomi Fish The perl-Config-IniFiles-2.68 software and sample code developed by Scott Hutton, Rich Bowen, Jeremy Wadsack, Shlomi Fish is licensed under Artistic License.
David Golden and Ricardo Signes	perl-CPAN-Meta-2.112150	CPAN-Meta Perl module	See above Artistic License Copyright © David Golden and Ricardo Signes The perl-CPAN-Meta-2.112150 software and sample code developed by David Golden and Ricardo Signes is licensed under Artistic License.
Adam Kennedy	perl-CPAN-Meta-YAML-0.004	CPAN-Meta-YAML Perl module	See above Artistic License Copyright © Adam Kennedy The perl-CPAN-Meta-YAML-0.004 software and sample code developed by Adam Kennedy is licensed under Artistic License.
Eric Young, Systemics Ltd, W3Works, LLC	perl-Crypt-DES-2.05	Crypt-DES Perl module	See above Artistic License Copyright © Eric Young, Systemics Ltd, W3Works, LLC The perl-Crypt-DES-2.05 software and sample code developed by Eric Young, Systemics Ltd, W3Works, LLC is licensed under Artistic License.
Dan Sully	perl-Crypt-OpenSSL-X509-1.800.2	Crypt-OpenSSL-X509 Perl module	See above Artistic License Copyright © Dan Sully The perl-Crypt-OpenSSL-X509-1.800.2 software and sample code developed by Dan Sully is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
A. Sinan Unur	perl-Crypt-SSLeay-0.58_01	OpenSSL support for LWP	See above Artistic License Copyright © A. Sinan Unur The perl-Crypt-SSLeay-0.58_01 software and sample code developed by A. Sinan Unur is licensed under Artistic License.
Fabien Tassin, David Cantrell	perl-Data-Compare-1.22	Data-Compare Perl module	See above Artistic License Copyright © Fabien Tassin, David Cantrell The perl-Data-Compare-1.22 software and sample code developed by Fabien Tassin, David Cantrell is licensed under Artistic License.
Fabien Tassin	perl-Data-HexDump-0.02-1.el5.centosprerel	Data-HexDump Perl module	See above Artistic License Copyright © Fabien Tassin <fta@oleane.net> The perl-Data-HexDump-0.02-1.el5.centosprerel software and sample code developed by Fabien Tassin is licensed under Artistic License.
Jarkko Hietaniemi	perl-Graph-0.91-3.el6prerel	Graph Perl module	See above Artistic License Copyright © Jarkko Hietaniemi The perl-Graph-0.91-3.el6prerel software and sample code developed by Jarkko Hietaniemi is licensed under Artistic License.
Makamaka Hannyaharamitu	perl-JSON-PP-2.53	JSON-PP Perl module	See above Artistic License Copyright © Makamaka Hannyaharamitu perl-JSON-PP-2.53software and sample code developed by Makamaka Hannyaharamitu is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Marc Lehmann	perl-JSON-XS-2.32	JSON-XS Perl module	See above Artistic License Copyright © Marc Lehmann The perl-JSON-XS-2.32 software and sample code developed by Marc Lehmann is licensed under Artistic License.
Douglas Crockford	JSON PHP formatter v.1	PHP Parser	See above Artistic License Copyright © Douglas Crockford The JSON PHP formatter v.1 software and sample code developed by Douglas Crockford is licensed under Artistic License.
Nick Cleaton	perl-Lchown-1.01	Lchown Perl module	See above Artistic License Copyright © Nick Cleaton The perl-Lchown-1.01 software and sample code developed by Nick Cleaton is licensed under Artistic License.
Open Source Development Labs	perl-Linux-Bootloader-1.3	Linux-Bootloader Perl module	See above Artistic License Copyright © Open Source Development Labs The perl-Linux-Bootloader-1.3 software and sample code developed by Open Source Development Labs is licensed under Artistic License.
Chad Kerner	perl-Linux-LVM-0.16	Linux-LVM Perl module	See above Artistic License Copyright © Chad Kerner The perl-Linux-LVM-0.16 software and sample code developed by Chad Kerner is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Vincent Pit	perl-Linux-SysInfo-0.13	Linux-SysInfo Perl module	See above Artistic License Copyright © Vincent Pit The perl-Linux-SysInfo-0.13 software and sample code developed by Vincent Pit is licensed under Artistic License.
Adam Kennedy	perl-LWP-Online-1.08	LWP-Online Perl module	See above Artistic License Copyright © Adam Kennedy The perl-LWP-Online-1.08 software and sample code developed by Adam Kennedy is licensed under Artistic License.
Jan Krynicky	perl-Mail-Sender-0.8.16	Mail-Sender Perl module	See above Artistic License Copyright © Jan Krynicky The perl-Error software and sample code developed by Graham Barr is licensed under Artistic License.
Milivoj Ivkovic	perl-Mail-Sendmail-0.79	Mail-Sendmail Perl module	See above Artistic License Copyright © Milivoj Ivkovic The perl-Mail-Sendmail-0.79 software and sample code developed by Milivoj Ivkovic is licensed under Artistic License.
Parliament Hill Computers Ltd/Alain D D Williams	perl-Math-Expression-1.21	Math-Expression Perl module	See above Artistic License Copyright © Parliament Hill Computers Ltd/Alain D D Williams The perl-Math-Expression-1.21 software and sample code developed by Parliament Hill Computers Ltd/Alain D D Williams is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Geoffrey Rommel	perl-Math-Round-0.06	Math-Round Perl module	See above Artistic License Copyright © Geoffrey Rommel The perl-Math-Round-0.06 software and sample code developed by Geoffrey Rommel is licensed under Artistic License.
Ken Williams, Matt Trout and David Golden	perl-Module-Metadata-1.000006	Module-Metadata Perl module	See above Artistic License Copyright © Ken Williams, Matt Trout and David Golden The perl-Module-Metadata-1.000006 software and sample code developed by Ken Williams, Matt Trout and David Golden is licensed under Artistic License.
Andrew Main (Zefram)	perl-Module-Runtime-0.011	Module-Runtime Perl module	See above Artistic License Copyright © Andrew Main (Zefram) The perl-Error software and sample code developed by Andrew Main (Zefram) is licensed under Artistic License.
Michael Robinton	perl-Net-Interface-1.012	Net-Interface Perl module	See above Artistic License Copyright © Michael Robinton The perl-Net-Interface-1.012 software and sample code developed by Michael Robinton is licensed under Artistic License.
David Muir Sharnoff, Google, Inc.	perl-Net-Netmask-1.9016	Net-Netmask Perl module	See above Artistic License Copyright © David Muir Sharnoff,Google, Inc. The perl-Net-Netmask-1.9016 software and sample code developed by David Muir Sharnoff, Google, Inc. is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Sampo Kellomaki, Symlabs	perl-Net-SMPP-1.19	Net-SMPP Perl module	See above Artistic License Copyright © Sampo Kellomaki, Symlabs The perl-Net-SMPP-1.19 software and sample code developed by Sampo Kellomaki, Symlabs is licensed under Artistic License.
David M. Town	perl-Net-SNMP-5.5	Net-SNMP Perl module	See above Artistic License Copyright © David M. Town The perl-Net-SNMP- 5.5software and sample code developed by David M. Town is licensed under Artistic License.
Dave Rolsky	perl-Package-DeprecationManager-0.11	Package-DeprecationManager Perl module	See above Artistic License Copyright © Dave Rolsky The perl-Package-DeprecationManager-0.11 software and sample code developed by Dave Rolsky is licensed under Artistic License.
Jesse Luehrs	perl-Package-Stash-XS-0.25-1.el6	Package-Stash Perl module	Artistic License Copyright © Jesse Luehrs This is a backend for Package::Stash, which provides the functionality in a way that's less buggy and much faster. It will be used by default if it's installed, and should be preferred in all environments with a compiler.
Jesse Luehrs	perl-Package-Stash-0.33	Package-Stash Perl module	See above Artistic License Copyright © Jesse Luehrs The perl-Package-Stash-0.33 software and sample code developed by Jesse Luehrs is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Andy Armstrong	perl-Parallel-Iterator-1.00	Parallel-Iterator Perl module	See above Artistic License Copyright Andy Armstrong The perl-Parallel-Iterator-1.00 software and sample code developed by Andy Armstrong is licensed under Artistic License.
Andrew Main (Zefram), PhotoBox Ltd	perl-Params-Classify-0.013	Params-Classify Perl module	See above Artistic License Copyright © Andrew Main (Zefram), PhotoBox Ltd The perl-Params-Classify-0.013 software and sample code developed by Andrew Main (Zefram), PhotoBox Ltd is licensed under Artistic License.
Audrey Tang, Steffen Mueller	perl-PAR-1.002	PAR Perl module	See above Artistic License Copyright © Audrey Tang, Steffen Mueller The perl-PAR-1.002 software and sample code developed by Audrey Tang, Steffen Mueller is licensed under Artistic License.
Audrey Tang	perl-PAR-Packer-1.010	PAR-Packer Perl module	See above Artistic License Copyright © Audrey Tang The perl-PAR-Packer-1.010 software and sample code developed by Audrey Tang is licensed under Artistic License.
Jeremy Cole	perl-Parse-HP-ACU-0.03	Parse-HPACU Perl module	See above Artistic License Copyright © Jeremy Cole The perl-Parse-HP-ACU-0.03 software and sample code developed by Jeremy Cole is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
David Golden	perl-Perl-OSType-1.002	Perl-OSType Perl module	See above Artistic License Copyright © David Golden The perl-Perl-OSType-1.002 software and sample code developed by David Golden is licensed under Artistic License.
Thomas R. Wyant	perl-PPIx-Regexp-0.021	PPIx-Regexp Perl module	See above Artistic License Copyright © Thomas R. Wyant The perl-PPIx-Regexp-0.021 software and sample code developed by Thomas R. Wyant is licensed under Artistic License.
Elliot Shank	perl-PPIx-Utilities-1.001000	PPIx-Utilities Perl module	See above Artistic License Copyright © Elliot Shank The perl-PPIx-Utilities-1.001000 software and sample code developed by Elliot Shank is licensed under Artistic License.
Adam Kennedy	perl-PPI-1.215	Perl parser	See above Artistic License Copyright © Adam Kennedy The Perl parser software and sample code developed by Adam Kennedy is licensed under Artistic License.
Tom Zoerner	perl-Quota-1.6.6	Quota Perl module	See above Artistic License Copyright © Tom Zoerner The perl-Quota-1.6.6 software and sample code developed by Tom Zoerner is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Damian Conway and Abigail	perl-Regexp-Common-2011041701	Regexp-Common Perl module	See above Artistic License Copyright © Damian Conway and Abigail The perl-Regexp-Common-2011041701 software and sample code developed by Damian Conway and Abigail is licensed under Artistic License.
Chip Turner, Lubomir Rintel	perl-RPM2-1.0	RPM2 Perl module	See above Artistic License Copyright © Chip Turner, Lubomir Rintel The perl-RPM2-1.0 software and sample code developed by Chip Turner, Lubomir Rintel is licensed under Artistic License.
Chip Turner	perl-RPM-Specfile-1.51	RPM-Specfile Perl module	See above Artistic License Copyright © Chip Turner The perl-Error software and sample code developed by Chip Turner is licensed under Artistic License.
Paul Kulchenko, Randy J. Ray, Byrne Reese, Martin Kutter	perl-SOAP-Transport-FTP-0.711	SOAP-Transport-FTP Perl module	See above Artistic License Copyright © Paul Kulchenko, Randy J.Ray, Byrne Reese, Martin Kutter The perl-SOAP-Transport-FTP-0.711 and perl-SOAP-Transport-JABBER-0.713 software and sample code developed by Paul Kulchenko, Randy J. Ray, Byrne Reese, Martin Kutter is licensed under Artistic License.
Paul Kulchenko, Randy J. Ray,	perl-SOAP-Transport-JABBER-0.713	SOAP-Transport Perl module	See above Artistic License

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Byrne Reese, Martin Kutter Paul Kulchenko	perl-SOAP-Transport-TCP-0.715	SOAP-Transport-TCP Perl module	Copyright © Paul Kulchenko, Randy J.Ray, Byrne Reese, Martin Kutter The perl-SOAP-Transport-FTP-0.711 and perl-SOAP-Transport-JABBER-0.713 software and sample code developed by Paul Kulchenko, Randy J. Ray, Byrne Reese, Martin Kutter is licensed under Artistic License. See above Artistic License Copyright © Paul Kulchenko The perl-SOAP-Transport-TCP-0.715 software and sample code developed by Paul Kulchenko is licensed under Artistic License.
Nicholas J Humfrey , Jonathan Steinert	perl-Socket-Multicast6-0.04	Socket-Multicast Perl module	See above Artistic License Copyright © Nicholas J Humfrey , Jonathan Steinert The perl-Socket-Multicast6-0.04 software and sample code developed by Nicholas J Humfrey , Jonathan Steinert is licensed under Artistic License.
Kenneth J. Albanowski	perl-Sort-Versions-1.5	Sort-Versions Perl module	See above Artistic License Copyright © Kenneth J. Albanowski The perl-Sort-Versions-1.5 software and sample code developed by Kenneth J. Albanowski is licensed under Artistic License.
Matthew Simon Cavalletto, Evolution Online Systems, Inc.	perl-String-Escape-2010.002	String-Escape Perl module	See above Artistic License Copyright © Matthew Simon Cavalletto, Evolution Online Systems, Inc. The perl-String-Escape-2010.002 software and sample code developed by Matthew Simon Cavalletto, Evolution Online Systems, Inc.is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Scott Penrose	perl-Sys-Hostname-Long-1.4	Sys-Hostname-Long Perl module	See above Artistic License Copyright © Scott Penrose The perl-Sys-Hostname-Long-1.4 software and sample code developed by Scott Penrose is licensed under Artistic License.
Netscalibur UK, Jonathan Stowe	perl-Sys-Utmp-1.6	Sys-Utmp Perl module	See above Artistic License Copyright © Netscalibur UK, Jonathan Stowe The perl-Sys-Utmp-1.6 software and sample code developed by Netscalibur UK, Jonathan Stowe is licensed under Artistic License.
Tom Phoenix	perl-Taint-0.07	Taint Perl module	See above Artistic License Copyright © Tom Phoenix The perl-Taint-0.07 software and sample code developed by Tom Phoenix is licensed under Artistic License.
Tokuhiro Matsuno	perl-Test-Requires-0.06	Test-Requires Perl module	See above Artistic License Copyright © Tokuhiro Matsuno The perl-Test-Requires-0.06 software and sample code developed by Tokuhiro Matsuno is licensed under Artistic License.
Google Inc.	Google-GWT-2.5.1	Google Development and Tools Library	The Free BSD Project (Modified) Copyright © 1995-2013 The FreeBSD Project software and sample code developed by The FreeBSD Project licensed under The Free BSD Project (Modified)
QOS.ch	SLF4J-1.6.1	Simple Logging Façade For java	SLF4J source code and binaries are distributed under the MIT license

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Google Inc.	SmartGWT-4.0	Google Development and Tools Library	The Free BSD Project (Modified) Copyright © 1995-2013 The FreeBSD Project software and sample code developed by The FreeBSD Project licensed under The Free BSD Project (Modified)
Dmitry Baranovskiy	Raphael-2.1.2	Javascript Library	MIT License Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions: The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. The software is provided "as is", without warranty of any kind, express or implied, including but not limited to the warranties of merchantability, fitness for a particular purpose and noninfringement. In no event shall the authors or copyright holders be liable for any claim, damages or other liability, whether in an action of contract, tort or otherwise, arising from, out of or in connection with the software or the use or other dealings in the software.
Chris Leonello	Jqplot-1.0.8	Plotting and charting plugin for the jQuery Javascript framework	jqPlot is an open source project dual licensed under the MIT and GPL version 2 licenses. You are free to choose the license that best suits your project..

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
jQuery Foundation	jQuery-1.9.1	JavaScript library	MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

The software is provided "as is", without warranty of any kind, express or implied, including but not limited to the warranties of merchantability, fitness for a particular purpose and noninfringement. In no event shall the authors or copyright holders be liable for any claim, damages or other liability, whether in an action of contract, tort or otherwise, arising from, out of or in connection with the software or the use or other dealings in the software. |
Lee Thomason, Yves Berquin, Andrew Ellerton	TinyXML-1.0.8	C++ XML parser	TinyXML is released under the ZLib license, so you can use it in open source or commercial code. The details of the license are at the top of every source file
Adrian Colyer	AspectJ-1.6.8	Seamless aspect-oriented extension to the Java programming language	Eclipse Public License 1.0
iReasoning	iReasoning SNMP Libraries-5.0.05	Java SNMP Library	EULA
JWare Software	AntXtras-0.5.1	Ant extension library	GNU LGPL 2.1
John Currier	schemaSpy-3.1.1	Tool to to generate graphical representations of the table/view relationships	GNU LGPL 2.1

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
JCraft	JSch-0.1.30	Java implementation of SSH2.	BSD License
Adobe Systems	BlazeDS-3.2.0	Java remoting and web messaging technology to connect to back-end distributed data and push data to Adobe Flex and Adobe AIR	LGPL v3
Bobby Van Der Sluis	SWFObject-2.2	Tool to embed Flash Player using a markup based approach and a method that relies on JavaScript	MIT License
Gnome Project	gdk-pixbuf2 2.24.1	An image loading library	LGPLv2+ and (LGPLv2+ or MPLv1.1) and Public Domain
	p11-kit 0.18.5	Library for loading and sharing PKCS#11 modules	BSD
RedHat	Redhat-lsb 4	LSB base libraries support for CentOS	GPL

License and Trademark Information on CentOS Packages Distributed by Tekelec

This information applies to Oracle Communications Tekelec Platform Distribution based applications as they are hosted on a CentOS platform. The following is a list of packages with the licensing information that was gleaned from the sources. The latest and most accurate information can always be found in the

licensing documentation contained within the source packages.

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
acl	acl libacl libacl-devel acl libacl libacl-devel	GPL GPLv2+ starting 6.0
acpid	acpid acpid	GPL GPLv2+ starting 5.4
alsa-lib	alsa-lib alsa-lib-devel alsa-lib alsa-lib-devel	LGPL LGPLv2+ starting 6.0
apr	apr apr-devel apr-docs apr apr-devel	Apache Software License ASL 2.0 starting 6.0
apr-util	apr-util apr-util-devel apr-util apr-util-devel apr-util-docs apr-util-mysql apr-util apr-util-devel apr-util-ldap apr-util-mysql apr-util-odbc apr-util-pgsql apr-util-sqlite	Apache Software License Apache Software License 2.0 starting 5.0 ASL 2.0 starting 6.0
arptables_jf	arptables_jf arptables_jf	GPL GPLv2+ starting 6.0
at	at at	GPL GPLv2+ starting 6.0
atk	atk atk-devel atk	LGPL LGPLv2+ starting 6.0

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	atk-devel	
attr	attr	GPL
	libattr	GPLv2+ starting 6.0
	libattr-devel	
	attr	
	libattr	
	libattr-devel	
audiofile	audiofile	LGPL
	audiofile-devel	LGPLv2+ starting 6.0
	audiofile	
	audiofile-devel	
audit	audit	GPL
	audit-libs	GPLv2+ starting 6.0
	audit-libs-devel	
	audit-libs-python	
	audispd-plugins	
	system-config-audit	
	audispd-plugins	
	audit	
	audit-libs	
	audit-libs-devel	
	audit-libs-python	
	audit-libs-static	
authconfig	authconfig	GPL
	authconfig-gtk	GPLv2+ starting 5.2
	authconfig	
	authconfig-gtk	
autoconf	autoconf	GPL
	autoconf	GPLv3+ and GFDL starting 6.0
autofs	autofs	GPL
	autofs	GPLv2+ starting 6.0
automake	automake	GPL
	automake	GPLv2+ and GFDL starting 6.0
basesystem	basesystem	public domain
	basesystem	Public Domain starting 6.0
bash	bash	GPL
	bash	GPLv2+ starting 5.2
	bash	GPLv3+ starting 6.0
	bash-doc	

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
bc	bc	GPL
	bc	GPLv2+ starting 6.0
bind	bind	BSD-like
	bind-chroot	ISC starting 6.0
	bind-devel	
	bind-libs	
	bind-utils	
	bind-libbind-devel	
	bind-sdb	
	caching-nameserver	
	bind	
	bind-chroot	
	bind-devel	
	bind-libs	
	bind-sdb	
	bind-utils	
binutils	binutils	GPL
	binutils-devel	GPLv3+ starting 6.0
	binutils	
	binutils-devel	
bridge-utils	bridge-utils	GPL
	bridge-utils-devel	GPLv2+ starting 6.0
	bridge-utils	
busybox	busybox	GPL
	busybox-anaconda	GPLv2 starting 6.0
	busybox	
	busybox-petitboot	
bzip2	bzip2	BSD
	bzip2-devel	
	bzip2-libs	
checkpolicy	checkpolicy	GPL
	checkpolicy	GPLv2 starting 6.0
chkconfig	chkconfig	GPL
	ntsysv	GPLv2 starting 6.0
	chkconfig	
	ntsysv	
compat-gcc-296	compat-libgcc-296	GPL
	compat-libstdc++-296	GPLv2+ starting 6.0
	compat-libgcc-296	

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	compat-libstdc++-296	
comps-extras	comps-extras	GPL
	comps-extras	GPL+ and LGPL+ starting 6.0
coreutils	coreutils	GPL
	coreutils	GPLv2+ starting 5.2
	coreutils	GPLv3+ starting 6.0
	coreutils-libs	
cpio	cpio	GPL
	cpio	GPLv3+ starting 6.0
cracklib	cracklib	Artistic
	cracklib-dicts	LGPLv2+ starting 6.0
	cracklib	
	cracklib-devel	
	cracklib-dicts	
	cracklib-python	
crash	crash	GPL
	crash-devel	GPLv2 starting 5.5
	crash	GPLv3 starting 6.0
	crash-devel	
	crash-devel	
	crash	
	crash-devel	
crontabs	crontabs	Public Domain
	crontabs	Public Domain and GPLv2 starting 6.0
cups	cups	GPL
	cups-devel	GPLv2 starting 6.0
	cups-libs	
	cups-lpd	
	cups	
	cups-devel	
	cups-libs	
	cups-lpd	
	cups-php	
curl	curl	MPL
	curl-devel	MIT starting 5.0
	curl	
	curl-devel	
	libcurl	
	libcurl-devel	

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
cvs	cvs cvs cvs-inetd	GPL GPL+ and GPLv2+ and LGPL+ starting 6.0
cyrus-sasl	cyrus-sasl cyrus-sasl-devel cyrus-sasl-gssapi cyrus-sasl-md5 cyrus-sasl-ntlm cyrus-sasl-plain cyrus-sasl-sql cyrus-sasl-ldap cyrus-sasl-lib cyrus-sasl cyrus-sasl-devel cyrus-sasl-gssapi cyrus-sasl-ldap cyrus-sasl-lib cyrus-sasl-md5 cyrus-sasl-ntlm cyrus-sasl-plain cyrus-sasl-sql	Freely Distributable BSD starting 6.0
db4	db4 db4-devel db4-java db4-tcl db4-utils db4 db4-cxx db4-devel db4-devel-static db4-java db4-tcl db4-utils db4 db4-cxx db4-devel db4-devel-static db4-java db4-tcl	GPL BSD starting 6.0 Sleepycat and BSD starting 6.3

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	db4-utils	
dbus	dbus	AFL/GPL
	dbus-devel	GPLv2+ or AFL starting 5.3
	dbus-glib	
	dbus-python	
	dbus-x11	
	dbus	
	dbus	
	dbus-devel	
	dbus-devel	
	dbus-libs	
	dbus-libs	
	dbus-x11	
	dbus-doc	
desktop-file-utils	desktop-file-utils	GPL
	desktop-file-utils	GPLv2+ starting 6.0
device-mapper-multipath	device-mapper-multipath	GPL
	kpartx	GPL+ starting 5.6
	device-mapper-multipath	
	device-mapper-multipath-libs	
	kpartx	
device-mapper-persistent-data	device-mapper-persistent-data	GPLv3+
dhcp	dhclient	distributable
	dhcp	BSD starting 4.8
	dhcp-devel	ISC starting 6.0
	dhclient	
	dhcp	
	dhcp-devel	
	libdhcp4client	
	libdhcp4client-devel	
	dhclient	
	dhcp	
	dhcp-devel	
	dhcp-common	
dialog	dialog	GPL
	dialog	LGPLv2 starting 6.0
	dialog-devel	
diffutils	diffutils	GPL
	diffutils	GPLv2+ starting 6.0

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
dmraid	dmraid dmraid-devel dmraid-events dmraid-events-logwatch dmraid dmraid-devel dmraid-events dmraid-events-logwatch	GPL GPLv2+ starting 6.0
docbook-dtds	docbook-dtds docbook-dtds	Distributable Copyright only starting 6.0
dos2unix	dos2unix dos2unix	Freely distributable BSD starting 6.0
dosfstools	dosfstools dosfstools	GPL GPLv3+ starting 6.0
dvd+rw-tools	dvd+rw-tools dvd+rw-tools	GPL GPLv2 starting 6.0
e2fsprogs	e2fsprogs e2fsprogs-devel uuidd e2fsprogs-libs e2fsprogs e2fsprogs-devel e2fsprogs-libs libcom_err libcom_err-devel libss libss-devel	GPL GPLv2 starting 6.0
eject	eject eject	GPL GPLv2+ starting 6.0
elfutils	elfutils elfutils-devel elfutils-libelf elfutils-libelf-devel elfutils-devel-static elfutils-libelf-devel-static elfutils-libs elfutils elfutils-devel elfutils-devel	GPL GPLv2 with exceptions starting 5.3

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	elfutils-devel-static	
	elfutils-devel-static	
	elfutils-libelf	
	elfutils-libelf	
	elfutils-libelf-devel	
	elfutils-libelf-devel	
	elfutils-libelf-devel-static	
	elfutils-libelf-devel-static	
	elfutils-libs	
	elfutils-libs	
ethtool	ethtool	GPL
	ethtool	GPLv2 starting 6.0
expat	expat	BSD
	expat-devel	MIT starting 6.0
	expat	
	expat-devel	
expect	expect	Public Domain
	expect-devel	
	expectk	
file	file	distributable
	file	BSD starting 6.0
	file-devel	
	file-libs	
	file-static	
	python-magic	
filesystem	filesystem	Public Domain
findutils	findutils	GPL
	findutils	GPLv3+ starting 6.0
flac	flac	LGPL/GPL
	flac-devel	BSD and GPLv2+ starting 6.0
	xmms-flac	
	flac	
	flac-devel	
fontconfig	fontconfig	MIT
	fontconfig-devel	
freetype	freetype	BSD/GPL dual license
	freetype-demos	FTL or GPLv2+ starting 6.0
	freetype-devel	
	freetype-utils	

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	freetype	
	freetype-demos	
	freetype-devel	
ftp	ftp	BSD
	ftp	BSD with advertising starting 6.0
gamin	gamin	LGPL
	gamin-devel	LGPLv2 starting 6.0
	gamin-python	
	gamin	
	gamin-devel	
	gamin-python	
gawk	gawk	GPL
	gawk	GPLv3+ starting 6.0
gcc	cpp	GPL
	gcc	GPLv3+ and GPLv3+ with exceptions and GPLv2+ with exceptions starting 6.0
	gcc-c++	
	gcc-g77	
	gcc-gnat	
	gcc-java	
	gcc-objc	
	libf2c	
	libgcc	
	libgcj	
	libgcj-devel	
	libgnat	
	libobjc	
	libstdc++	
	libstdc++-devel	
	gcc-gfortran	
	gcc-objc++	
	libgcj-src	
	libgfortran	
	libgomp	
	libmudflap	
	libmudflap-devel	
	cpp	
	gcc	
	gcc-c++	

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	gcc-gfortran	
	gcc-gnat	
	gcc-java	
	gcc-objc	
	gcc-objc++	
	libgcc	
	libgcj	
	libgcj-devel	
	libgcj-src	
	libgfortran	
	libgnat	
	libgnat-devel	
	libgomp	
	libmudflap	
	libmudflap-devel	
	libobjc	
	libstdc++	
	libstdc++-devel	
	libstdc++-docs	
GConf2	GConf2	LGPL
	GConf2-devel	LGPLv2+ starting 6.0
	GConf2	
	GConf2-devel	
	GConf2-gtk	
gdb	gdb	GPL
	gdb	GPLv3+ starting 5.3
	gdb	GPLv3+ and GPLv3+ with exceptions and GPLv2+ and GPLv2+ with exceptions and GPL+ and LGPLv2+ and GFDL and BSD and Public Domain starting 6.0
	gdb-gdbserver	
gdbm	gdbm	GPL
	gdbm-devel	GPLv2+ starting 6.0
	gdbm	
	gdbm-devel	
gettext	gettext	GPL/LGPL
	gettext-devel	GPLv3 and LGPLv2+ starting 5.6
	gettext	
	gettext-devel	

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	gettext-libs	
ghostscript-fonts	ghostscript-fonts	GPL
	ghostscript-fonts	GPLv2+ and Hershey and MIT and OFL and Public Domain starting 6.0
glib2	glib2	LGPL
	glib2-devel	LGPLv2+ starting 6.0
	glib2	
	glib2-devel	
	glib2-static	
glibc	glibc	LGPL
	glibc	LGPLv2+ and LGPLv2+ with exceptions and GPLv2+ starting 6.0
	glibc-common	
	glibc-devel	
	glibc-headers	
	glibc-profile	
	glibc-utils	
	nptl-devel	
	nptl-devel	
	nscd	
	glibc	
	glibc-common	
	glibc-devel	
	glibc-headers	
	glibc-static	
	glibc-utils	
	nscd	
gmp	gmp	LGPL
	gmp-devel	LGPLv2+ and GPLv3+ and LGPLv3+ starting 6.0
	gmp	
	gmp-devel	
	gmp-static	
gnome-icon-theme	gnome-icon-theme	GPL
	gnome-icon-theme	GPL+ starting 6.0
gnome-keyring	gnome-keyring	GPL/LGPL
	gnome-keyring-devel	GPLv2+ and LGPLv2+ starting 6.0
	gnome-keyring	
	gnome-keyring-devel	

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	gnome-keyring-pam	
gnome-python2	gnome-python2	LGPL
	gnome-python2-applet	LGPLv2+ starting 6.0
	gnome-python2-bonobo	
	gnome-python2-canvas	
	gnome-python2-gconf	
	gnome-python2-gnomeprint	
	gnome-python2-gnomevfs	
	gnome-python2-gtkhtml2	
	gnome-python2-nautilus	
	gnome-python2	
	gnome-python2-bonobo	
	gnome-python2-canvas	
	gnome-python2-devel	
	gnome-python2-gconf	
	gnome-python2-gnome	
	gnome-python2-gnomevfs	
gnome-themes	gnome-themes	LGPL
	gnome-themes	LGPLv2 and GPLv2 starting 6.0
gnome-vfs2	gnome-vfs2	LGPL
	gnome-vfs2-devel	LGPLv2+ and GPLv2+ starting 6.0
	gnome-vfs2-smb	
	gnome-vfs2	
	gnome-vfs2-devel	
	gnome-vfs2-smb	
gnutls	gnutls	LGPL
	gnutls-devel	GPLv3+ and LGPLv2+ starting 6.0
	gnutls-utils	
	gnutls	
	gnutls-devel	
	gnutls-guile	
	gnutls-utils	
gpm	gpm	GPL
	gpm-devel	GPLv2+ starting 6.0
	gpm	
	gpm-devel	
	gpm-libs	
	gpm-static	

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
grep	grep	GPL
	grep	GPLv3+ starting 6.0
groff	groff	GPL
	groff-gxditview	GPLv2 and GFDL starting 6.0
	groff-perl	
	groff	
	groff-gxditview	
	groff-perl	
grub	grub	GPL
	grub	GPLv2+ starting 6.0
gstreamer	gstreamer	LGPL
	gstreamer-devel	LGPLv2+ starting 5.3
	gstreamer-tools	
	gstreamer	
	gstreamer	
	gstreamer-devel	
	gstreamer-devel	
	gstreamer-tools	
	gstreamer-devel-docs	
gtk2	gtk2	LGPL
	gtk2-devel	LGPLv2+ starting 6.0
	gtk2	
	gtk2-devel	
	gtk2-devel-docs	
	gtk2-immodules	
	gtk2-immodule-xim	
gtk2-engines	gtk2-engines	GPL
	gtk2-engines	LGPLv2+ starting 6.0
	gtk2-engines-devel	
gzip	gzip	GPL
	gzip	GPLv2+ and GFDL starting 6.0
hal	hal	AFL/GPL
	hal-devel	AFL or GPLv2 starting 6.0
	hal-gnome	
	hal	
	hal-devel	
	hal-docs	
	hal-libs	
	hal-storage-addon	

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
hdparm	hdparm	BSD
	hdparm	BSD and GPLv2 starting 6.0
hesiod	hesiod	MIT
	hesiod-devel	
hicolor-icon-theme	hicolor-icon-theme	GPL
	hicolor-icon-theme	GPL+ starting 6.0
httpd	httpd	Apache Software License
	httpd-devel	ASL 2.0 starting 6.0
	httpd-manual	
	httpd-suexec	
	mod_ssl	
	httpd	
	httpd-devel	
	httpd-manual	
	httpd-tools	
	mod_ssl	
hwdata	hwdata	GPL/MIT
	hwdata	GPLv2+ and LGPLv2+ starting 5.2
initscripts	initscripts	GPL
	initscripts	GPLv2 and GPLv2+ starting 5.3
	debugmode	
iproute	iproute	GNU GPL
	iproute	GPLv2+ and Public Domain starting 6.0
	iproute-doc	
iptables	iptables	GPL
	iptables-devel	GPLv2 starting 6.0
	iptables-ipv6	
	iptables	
	iptables-devel	
	iptables-ipv6	
iputils	iputils	BSD
	iputils	BSD with advertising and GPLv2+ and Rdisc starting 6.0
jpackage-utils	jpackage-utils	JPackage License
	jpackage-utils	BSD starting 6.0
kbd	kbd	GPL
	kbd	GPLv2+ starting 6.0
	kbd-misc	
kernel	kernel	GPLv2

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	kernel-devel	
	kernel-doc	
	kernel-hugemem	
	kernel-hugemem-devel	
	kernel-smp	
	kernel-smp-devel	
	kernel-largesmp	
	kernel-largesmp-devel	
	kernel-sourcecode	
	kernel-xenU	
	kernel-xenU-devel	
	kernel-headers	
	kernel-PAE	
	kernel-PAE-devel	
	kernel-xen-devel	
	kernel-debug	
	kernel-debug-devel	
	kernel-firmware	
	perf	
	kernel-BOOT	
	kernel-BOOT-devel	
	kernel-kdump	
	kernel-kdump-devel	
	kernel-ovs	
	kernel-ovs-devel	
	python-perf	
keyutils	keyutils	GPL/LGPL
	keyutils-devel	GPLv2+ and LGPLv2+ starting 6.0
	keyutils-libs	
	keyutils-libs-devel	
	keyutils	
	keyutils-libs	
	keyutils-libs-devel	
krb5	krb5-devel	MIT, freely distributable.
	krb5-libs	
	krb5-server	
	krb5-workstation	
	krb5-server-ldap	
	krb5-pkinit-openssl	

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
less	less	GPL
	less	GPLv3+ starting 6.0
lftp	lftp	GPL
	lftp	GPLv2 starting 4.8
	lftp	GPLv3 starting 5.4
	lftp	GPLv3+ starting 6.0
	lftp-scripts	
libaio	libaio	LGPL
	libaio-devel	LGPLv2+ starting 6.0
	libaio	
	libaio-devel	
libart_lgpl	libart_lgpl	LGPL
	libart_lgpl-devel	LGPLv2+ starting 6.0
	libart_lgpl	
	libart_lgpl-devel	
libbonobo	libbonobo	LGPL
	libbonobo-devel	GPLv2+ and LGPLv2+ starting 6.0
	libbonobo	
	libbonobo-devel	
libbonoboui	libbonoboui	LGPL
	libbonoboui-devel	GPLv2+ and LGPLv2+ starting 6.0
	libbonoboui	
	libbonoboui-devel	
libcap	libcap	BSD-like and LGPL
	libcap-devel	LGPLv2+ or BSD starting 6.0
	libcap	
	libcap-devel	
libgcrypt	libgcrypt	LGPL
	libgcrypt-devel	LGPLv2+ starting 5.4
	libgcrypt	
	libgcrypt-devel	
libglade2	libglade2	LGPL
	libglade2-devel	LGPLv2+ starting 6.0
	libglade2	
	libglade2-devel	
libgnome	libgnome	LGPL
	libgnome-devel	LGPLv2+ starting 6.0
	libgnome	

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	libgnome-devel	
libgnomecanvas	libgnomecanvas	LGPL
	libgnomecanvas-devel	LGPLv2+ starting 6.0
	libgnomecanvas	
	libgnomecanvas-devel	
libgnomeui	libgnomeui	LGPL
	libgnomeui-devel	LGPLv2+ starting 6.0
	libgnomeui	
	libgnomeui-devel	
libgpg-error	libgpg-error	LGPL
	libgpg-error-devel	LGPLv2+ starting 6.0
	libgpg-error	
	libgpg-error-devel	
libIDL	libIDL	LGPL
	libIDL-devel	LGPLv2+ starting 6.0
	libIDL	
	libIDL-devel	
libidn	libidn	LGPL
	libidn-devel	LGPLv2+ and GPLv3+ and GFDL starting 6.0
	libidn	
	libidn-devel	
libmng	libmng	BSD-like
	libmng-devel	zlib starting 6.0
	libmng-static	
	libmng	
	libmng-devel	
libselinux	libselinux	Public domain (uncopyrighted)
	libselinux-devel	Public Domain starting 6.0
	libselinux-python	
	libselinux-utils	
	libselinux-ruby	
	libselinux	
	libselinux-devel	
	libselinux-python	
	libselinux-ruby	
	libselinux-static	
	libselinux-utils	
libsepol	libsepol	GPL
	libsepol-devel	LGPLv2+ starting 5.4

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	libsepol	
	libsepol-devel	
	libsepol-static	
libtiff	libtiff	distributable
	libtiff-devel	libtiff starting 5.3
	libtiff	
	libtiff	
	libtiff-devel	
	libtiff-devel	
	libtiff-static	
libtool	libtool	GPL
	libtool-libs	GPLv2+ and LGPLv2+ and GFDL starting 6.0
	libtool-ltdl	
	libtool-ltdl-devel	
	libtool	
	libtool-ltdl	
	libtool-ltdl-devel	
libusb	libusb	LGPL
	libusb-devel	LGPLv2+ starting 6.0
	libusb	
	libusb-devel	
	libusb-static	
libuser	libuser	LGPL
	libuser-devel	LGPLv2+ starting 6.0
	libuser	
	libuser-devel	
	libuser-python	
libvorbis	libvorbis	BSD
	libvorbis-devel	
	libvorbis-devel-docs	
libwnck	libwnck	LGPL
	libwnck-devel	LGPLv2+ starting 6.0
	libwnck	
	libwnck-devel	
libwvstreams	libwvstreams	LGPL
	libwvstreams-devel	LGPLv2+ starting 6.0
	libwvstreams	
	libwvstreams-devel	
libxml2	libxml2	MIT

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	libxml2-devel	
	libxml2-python	
	libxml2-static	
lksctp-tools	lksctp-tools	LGPL
	lksctp-tools-devel	GPLv2 and GPLv2+ and LGPLv2 and BSD starting 6.0
	lksctp-tools-doc	
	lksctp-tools	
	lksctp-tools-devel	
	lksctp-tools-doc	
lm_sensors	lm_sensors	GPL
	lm_sensors-devel	GPLv2+ starting 6.0
	lm_sensors	
	lm_sensors-devel	
	lm_sensors-libs	
	lm_sensors-sensord	
lockdev	lockdev	LGPL
	lockdev-devel	LGPLv2 starting 6.0
	lockdev	
	lockdev-devel	
logrotate	logrotate	GPL
	logrotate	GPL+ starting 6.0
lrzsz	lrzsz	GPL
	lrzsz	GPLv2+ starting 6.0
lsof	lsof	Free
	lsof	zlib starting 6.0
ltrace	ltrace	GPL
	ltrace	GPLv2+ starting 6.0
lvm2	lvm2	GPL
	cmirror	GPLv2 starting 6.0
	device-mapper	
	device-mapper-devel	
	device-mapper-event	
	device-mapper-event-devel	
	device-mapper-event-libs	
	device-mapper-libs	
	lvm2	
	lvm2-cluster	
	lvm2-devel	
	lvm2-libs	

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
lynx	lynx	GPL
	lynx	GPLv2 starting 6.0
m4	m4	GPL
	m4	GPLv3+ starting 6.0
mailcap	mailcap	public domain
	mailcap	Public Domain and MIT starting 6.0
mailx	mailx	BSD
	mailx	BSD with advertising and MPLv1.1 starting 6.0
make	make	GPL
	make	GPLv2+ starting 6.0
MAKEDEV	MAKEDEV	GPL
	MAKEDEV	GPLv2 starting 6.0
man	man	GPL
	man	GPLv2 starting 6.0
man-pages	man-pages	distributable
	man-pages	GPLv2+ and GPL+ and BSD and MIT and Copyright only and IEEE starting 6.0
mdadm	mdadm	GPL
	mdadm	GPLv2+ starting 6.0
mgetty	mgetty	GPL
	mgetty-sendfax	GPLv2+ starting 6.0
	mgetty-viewfax	
	mgetty-voice	
	mgetty	
	mgetty-sendfax	
	mgetty-viewfax	
	mgetty-voice	
mingetty	mingetty	GPL
	mingetty	GPLv2+ starting 6.0
minicom	minicom	GPL
	minicom	GPLv2+ starting 6.0
mkbootdisk	mkbootdisk	GPL
	mkbootdisk	GPLv2+ starting 6.0
module-init-tools	module-init-tools	GPL
	module-init-tools	GPLv2+ starting 6.0
mtdev	mtdev	MIT
mtools	mtools	GPL
	mtools	GPLv2+ starting 6.0

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
nc	nc	GPL
	nc	BSD starting 6.0
ncompress	ncompress	distributable
	ncompress	Public Domain starting 6.0
ncurses	ncurses	distributable
	ncurses-devel	MIT starting 6.0
	ncurses	
	ncurses-base	
	ncurses-devel	
	ncurses-libs	
	ncurses-static	
	ncurses-term	
neon	neon	LGPL
	neon-devel	LGPLv2+ starting 6.0
	neon	
	neon-devel	
net-snmp	net-snmp	BSDish
	net-snmp-devel	
	net-snmp-libs	
	net-snmp-perl	
	net-snmp-utils	
	net-snmp-python	
net-tools	net-tools	GPL
	net-tools	GPL+ starting 6.0
newt	newt	LGPL
	newt-devel	LGPLv2 starting 6.0
	newt	
	newt-devel	
	newt-python	
	newt-static	
nfs-utils	nfs-utils	GPL
	nfs-utils	MIT and GPLv2 and GPLv2+ and BSD starting 6.0
nfs-utils-lib	nfs-utils-lib	GPL
	nfs-utils-lib-devel	BSD starting 6.0
	nfs-utils-lib	
	nfs-utils-lib-devel	
nmap	nmap	GPL
	nmap-frontend	GPLv2 and LGPLv2+ and GPLv2+ and BSD starting 6.0

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	nmap	
	nmap-frontend	
nss_db	nss_db	GPL
	nss_db-compat	Sleepycat and LGPLv2+ starting 6.0
	nss_db	
ntp	ntp	distributable
	ntp	(MIT and BSD and BSD with advertising) and GPLv2 starting 6.0
	ntpdate	
	ntp-doc	
	ntp-perl	
numactl	numactl	LGPL/GPL
	numactl-devel	LGPLv2/GPLv2 starting 6.0
	numactl	
	numactl-devel	
OpenIPMI	OpenIPMI	GPL
	OpenIPMI-devel	LGPLv2+ and GPLv2+ or BSD starting 6.0
	OpenIPMI-libs	
	OpenIPMI-tools	
	OpenIPMI-perl	
	OpenIPMI-python	
	OpenIPMI-gui	
	OpenIPMI	
	OpenIPMI-devel	
	OpenIPMI-libs	
	OpenIPMI-perl	
	OpenIPMI-python	
openjade	openjade	Distributable
	openjade-devel	BSD starting 6.0
	openjade	
openldap	compat-openldap	OpenLDAP
	openldap	
	openldap-clients	
	openldap-devel	
	openldap-servers	
	openldap-servers-sql	
	openldap-servers-overlays	
openssh	openssh	BSD

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	openssh-askpass	
	openssh-askpass-gnome	
	openssh-clients	
	openssh-server	
	pam_ssh_agent_auth	
	openssh-ldap	
openssl	openssl	BSDish
	openssl	OpenSSL starting 6.0
	openssl-devel	
	openssl-perl	
	openssl	
	openssl-devel	
	openssl-perl	
	openssl-static	
ORBit2	ORBit2	LGPL/GPL
	ORBit2-devel	LGPLv2+ and GPLv2+ starting 6.0
	ORBit2	
	ORBit2-devel	
pam	pam	GPL or BSD
	pam-devel	BSD and GPLv2+ starting 6.0
	pam	
	pam-devel	
pam_passwdqc	pam_passwdqc	BSD-compatible
	pam_passwdqc	BSD and Copyright only starting 6.0
pango	pango	LGPL
	pango-devel	LGPLv2+ starting 6.0
	pango	
	pango-devel	
parted	parted	GPL
	parted-devel	GPLv2+ starting 4.7
	parted	GPLv3+ starting 6.0
	parted-devel	
	parted	
	parted-devel	
passwd	passwd	BSD
	passwd	BSD or GPLv2+ starting 6.0
patch	patch	GPL
	patch	GPLv2+ starting 6.0

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
patchutils	patchutils	GPL
	patchutils	GPLv2+ starting 6.0
pax	pax	BSD
pciutils	pciutils	GPL
	pciutils-devel	GPLv2+ starting 5.6
	pciutils	
	pciutils-devel	
	pciutils-devel-static	
	pciutils-libs	
pcre	pcre	distributable
	pcre-devel	BSD starting 5.0
	pcre	
	pcre-devel	
	pcre-static	
perl	perl	Artistic or GPL
	perl-suidperl	(GPL+ or Artistic) and (GPLv2+ or Artistic) and Copyright Only and MIT and Public Domain and UCD starting 6.0
	perl	
	perl-Archive-Extract	
	perl-Archive-Tar	
	perl-CGI	
	perl-Compress-Raw-Zlib	
	perl-Compress-Zlib	
	perl-core	
	perl-CPAN	
	perl-CPANPLUS	
	perl-devel	
	perl-Digest-SHA	
	perl-ExtUtils-CBuilder	
	perl-ExtUtils-Embed	
	perl-ExtUtils-MakeMaker	
	perl-ExtUtils-ParseXS	
	perl-File-Fetch	
	perl-IO-Compress-Base	
	perl-IO-Compress-Zlib	
	perl-IO-Zlib	
	perl-IPC-Cmd	
	perl-libs	

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	perl-Locale-Maketext-Simple	
	perl-Log-Message	
	perl-Log-Message-Simple	
	perl-Module-Build	
	perl-Module-CoreList	
	perl-Module-Load	
	perl-Module-Load-Conditional	
	perl-Module-Loaded	
	perl-Module-Pluggable	
	perl-Object-Accessor	
	perl-Package-Constants	
	perl-Params-Check	
	perl-parent	
	perl-Parse-CPAN-Meta	
	perl-Pod-Escapes	
	perl-Pod-Simple	
	perl-suidperl	
	perl-Term-UI	
	perl-Test-Harness	
	perl-Test-Simple	
	perl-Time-HiRes	
	perl-Time-Piece	
	perl-version	
	perl-Compress-Raw-Bzip2	
	perl-IO-Compress-Bzip2	
perl-Bit-Vector	perl-Bit-Vector	distributable
	perl-Bit-Vector	GPL or Artistic starting 5.0
	perl-Bit-Vector	(GPLv2+ or Artistic) and LGPLv2+ starting 6.0
perl-Convert-ASN1	perl-Convert-ASN1	GPL or Artistic
	perl-Convert-ASN1	GPL+ or Artistic starting 6.0
perl-Crypt-SSLeay	perl-Crypt-SSLeay	distributable
	perl-Crypt-SSLeay	GPL or Artistic starting 5.0
	perl-Crypt-SSLeay	GPL+ or Artistic starting 6.0
perl-Date-Calc	perl-Date-Calc	distributable
	perl-Date-Calc	GPL or Artistic starting 5.0
	perl-Date-Calc	GPL+ or Artistic starting 6.0
perl-DateManip	perl-DateManip	distributable
	perl-DateManip	GPL or Artistic starting 5.0
perl-DBI	perl-DBI	Artistic

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	perl-DBI	GPL or Artistic starting 5.0
	perl-DBI	GPL+ or Artistic starting 6.0
perl-Digest-HMAC	perl-Digest-HMAC	distributable
	perl-Digest-HMAC	GPL or Artistic starting 5.0
	perl-Digest-HMAC	GPL+ or Artistic starting 6.0
perl-Digest-SHA1	perl-Digest-SHA1	distributable
	perl-Digest-SHA1	GPL or Artistic starting 5.0
	perl-Digest-SHA1	GPL+ or Artistic starting 6.0
perl-HTML-Parser	perl-HTML-Parser	GPL or Artistic
	perl-HTML-Parser	GPL+ or Artistic starting 6.0
perl-HTML-Tagset	perl-HTML-Tagset	distributable
	perl-HTML-Tagset	Artistic or GPL starting 5.0
	perl-HTML-Tagset	GPL+ or Artistic starting 6.0
perl-LDAP	perl-LDAP	GPL or Artistic
	perl-LDAP	GPL+ or Artistic starting 6.0
perl-libwww-perl	perl-libwww-perl	GPL or Artistic
	perl-libwww-perl	GPL+ or Artistic starting 6.0
perl-libxml-perl	perl-libxml-perl	distributable
	perl-libxml-perl	GPL or Artistic starting 5.0
	perl-libxml-perl	GPL+ or Artistic starting 6.0
perl-Net-DNS	perl-Net-DNS	Distributable
	perl-Net-DNS	GPL or Artistic starting 5.0
	perl-Net-DNS	GPL+ or Artistic starting 6.0
	perl-Net-DNS-Nameserver	
perl-Parse-Yapp	perl-Parse-Yapp	distributable
	perl-Parse-Yapp	GPL+ or Artistic starting 6.0
perl-Time-HiRes	perl-Time-HiRes	distributable
perl-URI	perl-URI	distributable
	perl-URI	GPL or Artistic starting 5.0
	perl-URI	GPL+ or Artistic starting 6.0
perl-XML-Dumper	perl-XML-Dumper	GPL
	perl-XML-Dumper	GPL or Artistic starting 5.0
	perl-XML-Dumper	GPL+ or Artistic starting 6.0
perl-XML-Grove	perl-XML-Grove	distributable
	perl-XML-Grove	Artistic starting 5.0
	perl-XML-Grove	GPL+ or Artistic starting 6.0
perl-XML-LibXML	perl-XML-LibXML	GPL or Artistic
	perl-XML-LibXML	GPL+ or Artistic starting 6.0
perl-XML-NamespaceSupport	perl-XML-NamespaceSupport	distributable

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	perl-XML-NamespaceSupport	GPL or Artistic starting 5.0
	perl-XML-NamespaceSupport	GPL+ or Artistic starting 6.0
perl-XML-Parser	perl-XML-Parser	distributable
	perl-XML-Parser	GPL or Artistic starting 5.0
	perl-XML-Parser	GPL+ or Artistic starting 6.0
perl-XML-SAX	perl-XML-SAX	GPL or Artistic
	perl-XML-SAX	GPL+ or Artistic starting 6.0
perl-XML-Twig	perl-XML-Twig	distributable
	perl-XML-Twig	GPL or Artistic starting 5.0
	perl-XML-Twig	GPL+ or Artistic starting 6.0
php	php	The PHP License
	php-devel	The PHP License v3.01 starting 5.0
	php-domxml	PHP starting 6.0
	php-gd	
	php-imap	
	php-ldap	
	php-mbstring	
	php-mysql	
	php-ncurses	
	php-odbc	
	php-pear	
	php-pgsql	
	php-snmp	
	php-xmlrpc	
	php	
	php-bcmath	
	php-cli	
	php-common	
	php-dba	
	php-devel	
	php-gd	
	php-imap	
	php-ldap	
	php-mbstring	
	php-mysql	
	php-ncurses	
	php-odbc	
	php-pdo	
	php-pgsql	

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	php-snmp	
	php-soap	
	php-xml	
	php-xmlrpc	
	php	
	php-bcmath	
	php-cli	
	php-common	
	php-dba	
	php-devel	
	php-embedded	
	php-enchant	
	php-gd	
	php-imap	
	php-intl	
	php-ldap	
	php-mbstring	
	php-mysql	
	php-odbc	
	php-pdo	
	php-pgsql	
	php-process	
	php-pspell	
	php-recode	
	php-snmp	
	php-soap	
	php-tidy	
	php-xml	
	php-xmlrpc	
	php-zts	
pinfo	pinfo	GPL
	pinfo	GPLv2 starting 6.0
pkgconfig	pkgconfig	GPL
	pkgconfig	GPLv2+ starting 6.0
policycoreutils	policycoreutils	GPL
	policycoreutils-gui	GPLv2+ starting 6.0
	policycoreutils-newrole	
	policycoreutils	
	policycoreutils-gui	

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	policycoreutils-newrole	
	policycoreutils-python	
	policycoreutils-sandbox	
postfix	postfix	IBM Public License
	postfix-pflogsumm	
	postfix-perl-scripts	
prelink	prelink	GPL
	prelink	GPLv2+ starting 6.0
procps	procps	GPL
	procps	GPLv2+ and LGPLv2+ starting 6.0
	procps-devel	
psacct	psacct	GPL
	psacct	GPLv2+ and Public Domain starting 6.0
psmisc	psmisc	BSD/GPL
	psmisc	GPLv2+ starting 6.0
pygtk2	pygtk2	LGPL
	pygtk2-devel	LGPLv2+ starting 6.0
	pygtk2-libglade	
	pygtk2-codegen	
	pygtk2	
	pygtk2-codegen	
	pygtk2-devel	
	pygtk2-doc	
	pygtk2-libglade	
pyorbit	pyorbit	LGPL
	pyorbit-devel	LGPLv2+ starting 6.0
	pyorbit	
	pyorbit-devel	
python	python	PSF - see LICENSE
	python-devel	Python starting 6.0
	python-docs	
	python-tools	
	tkinter	
	python-libs	
	python	
	python-devel	
	python-libs	
	python-test	

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	python-tools	
	tkinter	
python-urlgrabber	python-urlgrabber	LGPL
	python-urlgrabber	LGPLv2+ starting 5.3
pyxf86config	pyxf86config	GPL
	pyxf86config	GPLv2 starting 6.0
qt	qt	GPL/QPL
	qt-config	(LGPLv2 with exceptions or GPLv3 with exceptions) and ASL 2.0 and BSD and FLT and MIT starting 6.0
	qt-designer	
	qt-devel	
	qt-MySQL	
	qt-ODBC	
	qt-PostgreSQL	
	qt-devel-docs	
	phonon-backend-gstreamer	
	qt	
	qt-demos	
	qt-devel	
	qt-doc	
	qt-examples	
	qt-mysql	
	qt-odbc	
	qt-postgresql	
	qt-sqlite	
	qt-x11	
quota	quota	BSD
	quota	BSD and GPLv2+ starting 6.0
	quota-devel	
rcs	rcs	GPL
	rcs	GPLv2+ starting 6.0
	rcs-docs	
readline	readline	GPL
	readline-devel	GPLv3+ starting 6.0
	readline	
	readline-devel	
	readline-static	
redhat-menus	redhat-menus	XFree86

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	redhat-menus	GPLv2+ starting 6.0
redhat-rpm-config	redhat-rpm-config	GPL
	redhat-rpm-config	GPL+ starting 6.0
rootfiles	rootfiles	Public Domain
rpm	popt	GPL
	rpm	GPLv2+ starting 5.3
	rpm-build	
	rpm-devel	
	rpm-libs	
	rpm-python	
	popt	
	popt	
	rpm	
	rpm-apidocs	
	rpm-build	
	rpm-devel	
	rpm-devel	
	rpm-libs	
	rpm-libs	
	rpm-python	
	rpm-cron	
rsync	rsync	GPL
	rsync	GPLv3+ starting 6.0
screen	screen	GPL2
	screen	GPLv2+ starting 6.0
sed	sed	GPL
	sed	GPLv2+ starting 6.0
setools	setools	GPL
	setools-gui	GPLv2 starting 6.0
	setools-devel	
	setools	
	setools-console	
	setools-devel	
	setools-gui	
	setools-libs	
	setools-libs-java	
	setools-libs-python	
	setools-libs-tcl	
setserial	setserial	GPL

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	setserial	GPL+ starting 6.0
setup	setup	public domain
	setup	Public Domain starting 6.0
setuptool	setuptool	GPL
	setuptool	GPLv2+ starting 6.0
sgml-common	sgml-common	GPL
	xml-common	GPL+ starting 6.0
	sgml-common	
	xml-common	
shadow-utils	shadow-utils	BSD
	shadow-utils	BSD and GPLv2+ starting 6.0
shared-mime-info	shared-mime-info	GPL
	shared-mime-info	GPLv2+ starting 6.0
slang	slang	GPL
	slang-devel	GPLv2+ starting 6.0
	slang	
	slang-devel	
	slang-slsh	
	slang-static	
speex	speex	BSD
	speex-devel	
	speex-tools	
sqlite	sqlite	Public Domain
	sqlite-devel	
	lemon	
	sqlite-doc	
	sqlite-tcl	
startup-notification	startup-notification	LGPL
	startup-notification-devel	LGPLv2 starting 6.0
	startup-notification	
	startup-notification-devel	
strace	strace	BSD
stunnel	stunnel	GPL
	stunnel	GPLv2 starting 6.0
sudo	sudo	BSD
	sudo	ISC starting 6.0
symlinks	symlinks	distributable
	symlinks	Copyright only starting 6.0
sysfsutils	sysfsutils	GPL/LGPL

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	sysfsutils-devel	GPLv2 starting 6.0
	libsysfs	LGPLv2+ starting 5.7
	libsysfs-devel	
	libsysfs	
	libsysfs-devel	
	sysfsutils	
	libsysfs	
	libsysfs-devel	
	sysfsutils	
syslinux	syslinux	GPL
	syslinux	GPLv2+ starting 6.0
	syslinux-devel	
	syslinux-extlinux	
	syslinux-perl	
	syslinux-tftpboot	
sysstat	sysstat	GPL
	sysstat	GPLv2+ starting 6.0
system-config-date	system-config-date	GPL
	system-config-date	GPLv2+ starting 6.0
systemtap	systemtap	GPL
	systemtap-runtime	GPLv2+ starting 4.7
	systemtap	GPLv2+, Public Domain starting 6.1
	systemtap-runtime	
	systemtap-testsuite	
	systemtap-client	
	systemtap-server	
	systemtap-initscript	
	systemtap-sdt-devel	
	systemtap-grapher	
	systemtap	
	systemtap-client	
	systemtap-grapher	
	systemtap-initscript	
	systemtap-runtime	
	systemtap-sdt-devel	
	systemtap-server	
	systemtap-testsuite	
	systemtap-devel	
SysVinit	SysVinit	GPL

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
talk	talk talk-server	BSD
tar	tar tar	GPL GPLv3+ starting 6.0
tcl	tcl tcl-devel tcl-html tcl tcl-devel	BSD TCL starting 6.0
tclx	tclx tclx-devel tclx-doc	BSD
tcpdump	arpwatch libpcap tcpdump libpcap-devel tcpdump	BSD BSD with advertising starting 6.0
tcp_wrappers	tcp_wrappers tcp_wrappers tcp_wrappers-devel tcp_wrappers-libs	Distributable BSD starting 6.0
tcsh	tcsh tcsh	distributable BSD starting 6.0
telnet	telnet telnet-server	BSD
texinfo	info texinfo texinfo-tex info texinfo texinfo-tex	GPL GPLv3+ starting 6.0
tftp	tftp tftp-server	BSD
time	time time	GPL GPLv2+ starting 6.0
tk	tk tk-devel tk tk-devel	BSD TCL starting 6.0

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
tmpwatch	tmpwatch	GPL
	tmpwatch	GPLv2 starting 6.0
traceroute	traceroute	BSD
	traceroute	GPL starting 5.0
	traceroute	GPLv2+ starting 6.0
tzdata	tzdata	GPL
	tzdata-java	Public Domain starting 6.0
	tzdata	
	tzdata-java	
udev	udev	GPL
	libvolume_id	GPLv2 starting 6.0
	libvolume_id-devel	
	libgudev1	
	libgudev1-devel	
	libudev	
	libudev-devel	
	udev	
unix2dos	unix2dos	distributable
	unix2dos	BSD starting 6.0
unzip	unzip	BSD
usbutils	usbutils	GPL
	usbutils	GPLv2+ starting 6.0
usermode	usermode	GPL
	usermode-gtk	GPLv2+ starting 6.0
	usermode	
	usermode-gtk	
valgrind	valgrind	GPL
	valgrind-devel	GPLv2 starting 6.0
	valgrind	
	valgrind-devel	
	valgrind-openmpi	
vconfig	vconfig	LGPL
	vconfig	GPL starting 5.0
	vconfig	GPLv2+ starting 6.0
vim	vim-common	freeware
	vim-enhanced	Vim starting 4.8
	vim-minimal	Vim and GPLv2+ and BSD and LGPLv2+ and Open Publication starting 6.0
	vim-X11	

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	vim-common	
	vim-enhanced	
	vim-minimal	
	vim-X11	
	vim-common	
	vim-enhanced	
	vim-minimal	
	vim-X11	
vlock	vlock	GPL
	vlock	GPLv2+ starting 6.0
vsftpd	vsftpd	GPL
	vsftpd	GPLv2 with exceptions starting 6.0
vte	vte	LGPL
	vte-devel	LGPLv2+ starting 6.0
	vte	
	vte-devel	
wget	wget	GPL
	wget	GPLv3+ and GFDL starting 6.0
which	which	GPL
	which	GPLv3 starting 6.0
words	words	public domain
	words	Public Domain starting 6.0
xinetd	xinetd	Distributable (BSD-like)
	xinetd	xinetd starting 6.0
ypbind	ypbind	GPL
	ypbind	GPLv2 starting 6.0
yp-tools	yp-tools	GPL
	yp-tools	GPLv2 starting 6.0
yum	yum	GPL
	yum-updatesd	GPLv2+ starting 5.2
	yum	
	yum-cron	
zip	zip	distributable
	zip	BSD starting 6.0
zlib	zlib	BSD
	zlib-devel	zlib and Boost starting 6.0
	minizip	
	minizip-devel	
	zlib	

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	zlib-devel	
	zlib-static	
wireshark	wireshark	GPL
	wireshark-gnome	GPL+ starting 6.0
	wireshark	
	wireshark-devel	
	wireshark-gnome	
perl-Archive-Tar	perl-Archive-Tar	GPL or Artistic
perl-IO-String	perl-IO-String	GPL or Artistic
	perl-IO-String	GPL+ or Artistic starting 6.0
perl-IO-Zlib	perl-IO-Zlib	GPL or Artistic
perl-TimeDate	perl-TimeDate	GPL or Artistic
	perl-TimeDate	GPL+ or Artistic starting 6.0
sos	sos	GPL
	sos	GPLv2+ starting 6.0
libsmi	libsmi	BSD
	libsmi-devel	BSD and GPLv2+ starting 6.0
	libsmi	
	libsmi-devel	
nspr	nspr	MPL/GPL/LGPL
	nspr-devel	MPLv1.1 or GPLv2+ or LGPLv2+ starting 5.6
	nspr	MPLv2.0 starting 5.9
	nspr-devel	
	nspr	
	nspr-devel	
nss	nss	MPL/GPL/LGPL
	nss-devel	MPLv1.1 or GPLv2+ or LGPLv2+ starting 5.6
	nss-tools	
	nss-pkcs11-devel	
	nss	
	nss-devel	
	nss-pkcs11-devel	
	nss-tools	
	nss-sysinit	
avahi	avahi	LGPL
	avahi-compat-howl	LGPLv2 starting 6.0
	avahi-compat-howl-devel	
	avahi-compat-libdns_sd	

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	avahi-compat-libdns_sd-devel	
	avahi-devel	
	avahi-glib	
	avahi-glib-devel	
	avahi-qt3	
	avahi-qt3-devel	
	avahi-tools	
	avahi	
	avahi-autoipd	
	avahi-compat-howl	
	avahi-compat-howl-devel	
	avahi-compat-libdns_sd	
	avahi-compat-libdns_sd-devel	
	avahi-devel	
	avahi-dnsconfd	
	avahi-glib	
	avahi-glib-devel	
	avahi-gobject	
	avahi-gobject-devel	
	avahi-libs	
	avahi-qt3	
	avahi-qt3-devel	
	avahi-qt4	
	avahi-qt4-devel	
	avahi-tools	
	avahi-ui	
	avahi-ui-devel	
	avahi-ui-tools	
cairo	cairo	LGPL/MPL
	cairo-devel	LGPLv2 or MPLv1.1 starting 6.0
	cairo	
	cairo-devel	
cpuspeed	cpuspeed	GPL
	cpuspeed	GPLv2+ starting 6.0
createrepo	createrepo	GPL
	createrepo	GPLv2 starting 5.2
cryptsetup-luks	cryptsetup-luks	GPL
	cryptsetup-luks-devel	GPLv2 starting 6.0
	cryptsetup-luks	

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	cryptsetup-luks-devel	
	cryptsetup-luks-libs	
dbus-glib	dbus-glib	AFL/GPL
	dbus-glib-devel	AFL and GPLv2+ starting 6.0
	dbus-glib	
	dbus-glib-devel	
dbus-python	dbus-python	AFL/GPL
	dbus-python	MIT starting 6.0
	dbus-python-devel	
dmidecode	dmidecode	GPL
	dmidecode	GPLv2+ starting 5.4
eclipse	eclipse-ecj	EPL
	eclipse-jdt	
	eclipse-jdt-sdk	
	eclipse-pde	
	eclipse-pde-runtime	
	eclipse-pde-sdk	
	eclipse-platform	
	eclipse-platform-sdk	
	eclipse-rcp	
	eclipse-rcp-sdk	
	eclipse-sdk	
	libswt3-gtk2	
	eclipse-swt	
giflib	giflib	MIT
	giflib-devel	
	giflib-utils	
gnome-menus	gnome-menus	LGPL
	gnome-menus-devel	LGPLv2+ starting 6.0
	gnome-menus	
	gnome-menus-devel	
hardlink	hardlink	GPL
	hardlink	GPLv2+ starting 6.0
icu	icu	X License
	libicu	MIT and UCD and Public Domain starting 6.0
	libicu-devel	
	libicu-doc	
	icu	
	libicu	

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	libicu-devel	
	libicu-doc	
imake	imake	MIT/X11
ipvsadm	ipvsadm	GPL
	ipvsadm	GPLv2+ starting 6.0
irqbalance	irqbalance	GPL/OSL
	irqbalance	GPLv2 starting 6.0
iso-codes	iso-codes	LGPL
	iso-codes-devel	LGPLv2+ starting 6.0
	iso-codes	
	iso-codes-devel	
kexec-tools	kexec-tools	GPL
	kexec-tools	GPLv2 starting 6.0
ksh	ksh	Common Public License Version 1.0
	ksh	CPL starting 6.0
lcms	lcms	LGPL
	lcms-devel	MIT starting 6.0
	python-lcms	
	lcms	
	lcms-devel	
	lcms-libs	
	python-lcms	
libdaemon	libdaemon	GPL
	libdaemon-devel	LGPLv2+ starting 6.0
	libdaemon	
	libdaemon-devel	
libdmx	libdmx	MIT/X11
	libdmx-devel	
libdrm	libdrm	MIT/X11
	libdrm-devel	
libevent	libevent	BSD
	libevent-devel	
	libevent-doc	
	libevent-headers	
libfontenc	libfontenc	MIT/X11
	libfontenc-devel	
libICE	libICE	MIT/X11
	libICE-devel	
libnl	libnl	LGPL

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	libnl-devel libnl libnl-devel	LGPLv2 starting 6.0
libnotify	libnotify libnotify-devel libnotify libnotify-devel	LGPL LGPLv2+ starting 6.0
libsemanage	libsemanage libsemanage-devel libsemanage libsemanage-devel libsemanage-python libsemanage-static	GPL LGPLv2+ starting 6.0
libSM	libSM libSM-devel	MIT/X11
libutempter	libutempter libutempter-devel libutempter libutempter-devel	LGPL LGPLv2 starting 6.0
libvirt	libvirt libvirt-devel libvirt-python libvirt libvirt-devel libvirt-python libvirt-client libvirt-lock-sanlock	LGPL LGPLv2+ starting 5.4
libX11	libX11 libX11-devel libX11-common	MIT/X11
libXau	libXau libXau-devel	MIT/X11
libXcomposite	libXcomposite libXcomposite-devel	MIT/X11
libXcursor	libXcursor libXcursor-devel	MIT/X11
libXdamage	libXdamage libXdamage-devel	MIT/X11
libXdmcp	libXdmcp	MIT/X11

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	libXdmcp-devel	
libXext	libXext libXext-devel	MIT/X11
libXfixes	libXfixes libXfixes-devel	MIT/X11
libXfont	libXfont libXfont-devel	MIT/X11
libXft	libXft libXft-devel	MIT/X11
libXi	libXi libXi-devel	MIT/X11
libXinerama	libXinerama libXinerama-devel	MIT/X11
libxkbfile	libxkbfile libxkbfile-devel	MIT/X11
libXmu	libXmu libXmu-devel	MIT/X11
libXrandr	libXrandr libXrandr-devel	MIT/X11
libXrender	libXrender libXrender-devel	MIT/X11
libXres	libXres libXres-devel	MIT/X11
libXt	libXt libXt-devel	MIT/X11
libXtst	libXtst libXtst-devel	MIT/X11
libXv	libXv libXv-devel	MIT/X11
libXxf86dga	libXxf86dga libXxf86dga-devel	MIT/X11
libXxf86misc	libXxf86misc libXxf86misc-devel	MIT/X11
libXxf86vm	libXxf86vm libXxf86vm-devel	MIT/X11
m2crypto	m2crypto m2crypto	BSDish MIT starting 6.0
mcstrans	mcstrans mcstrans	GPL GPL+ starting 6.0

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
mesa	glx-utils	MIT/X11
	mesa-libGL	
	mesa-libGL-devel	
	mesa-libGLU	
	mesa-libGLU-devel	
	mesa-libGLw	
	mesa-libGLw-devel	
	mesa-libOSMesa	
	mesa-libOSMesa-devel	
	mesa-source	
	mesa-demos	
	mesa-dri-drivers	
	mesa-dri-drivers-experimental	
microcode_ctl	microcode_ctl	GPL
	microcode_ctl	GPLv2+ starting 6.0
notification-daemon	notification-daemon	GPL
	notification-daemon	GPLv2+ starting 6.0
notify-python	notify-python	LGPL
	notify-python	LGPLv2+ starting 6.0
opensp	opensp	Distributable
	opensp-devel	MIT starting 6.0
	opensp	
	opensp-devel	
openssl097a	openssl097a	BSDish
perl-Carp-Clan	perl-Carp-Clan	GPL or Artistic
	perl-Carp-Clan	GPL+ or Artistic starting 6.0
perl-IO-Socket-INET6	perl-IO-Socket-INET6	Artistic or GPL
	perl-IO-Socket-INET6	GPL+ or Artistic starting 6.0
perl-IO-Socket-SSL	perl-IO-Socket-SSL	GPL or Artistic
	perl-IO-Socket-SSL	GPL+ or Artistic starting 6.0
perl-Net-IP	perl-Net-IP	GPL or Artistic
	perl-Net-IP	MIT and (GPL+ or Artistic) starting 6.0
perl-Net-SSLeay	perl-Net-SSLeay	BSDish
	perl-Net-SSLeay	OpenSSL starting 6.0
perl-Net-Telnet	perl-Net-Telnet	GPL or Artistic
	perl-Net-Telnet	GPL+ or Artistic starting 6.0
perl-Socket6	perl-Socket6	BSD
perl-String-CRC32	perl-String-CRC32	Public Domain
perl-XML-Simple	perl-XML-Simple	GPL or Artistic

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	perl-XML-Simple	GPL+ or Artistic starting 6.0
php-pear	php-pear	The PHP License 3.0
	php-pear	BSD and PHP and LGPLv2+ starting 6.0
pm-utils	pm-utils	GPL
	pm-utils	GPLv2 starting 6.0
	pm-utils-devel	
pycairo	pycairo	LGPL
	pycairo-devel	MPLv1.1 or LGPLv2 starting 6.0
	pycairo	
	pycairo-devel	
pygobject2	pygobject2	LGPL
	pygobject2-devel	LGPLv2+ starting 6.0
	pygobject2-doc	
	pygobject2	
	pygobject2-codegen	
	pygobject2-devel	
	pygobject2-doc	
python-virtinst	python-virtinst	GPL
	python-virtinst	GPLv2+ starting 5.2
readahead	readahead	GPL/OSL
	readahead	GPLv2+ starting 6.0
selinux-policy	selinux-policy	GPL
	selinux-policy-devel	GPLv2+ starting 6.0
	selinux-policy-mls	
	selinux-policy-strict	
	selinux-policy-targeted	
	selinux-policy-minimum	
	selinux-policy	
	selinux-policy-doc	
	selinux-policy-minimum	
	selinux-policy-mls	
	selinux-policy-targeted	
smartmontools	smartmontools	GPL
	smartmontools	GPLv2+ starting 6.0
squashfs-tools	squashfs-tools	GPL
	squashfs-tools	GPLv2+ starting 6.0
x86info	x86info	GPL
	x86info	GPLv2+ starting 6.0
xkeyboard-config	xkeyboard-config	MIT

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
xorg-x11-drv-ati	xorg-x11-drv-ati xorg-x11-drv-ati-firmware	MIT/X11
xorg-x11-drv-evdev	xorg-x11-drv-evdev xorg-x11-drv-evdev-devel	MIT/X11
xorg-x11-drv-keyboard	xorg-x11-drv-keyboard	MIT/X11
xorg-x11-drv-mouse	xorg-x11-drv-mouse	MIT/X11
xorg-x11-drv-vesa	xorg-x11-drv-vesa	MIT/X11
xorg-x11-drv-void	xorg-x11-drv-void	MIT/X11
xorg-x11-font-utils	xorg-x11-font-utils bdftruncate	MIT/X11
xorg-x11-server	xorg-x11-server-sdk xorg-x11-server-Xdmx xorg-x11-server-Xephyr xorg-x11-server-Xnest xorg-x11-server-Xorg xorg-x11-server-Xvfb xorg-x11-server-randr-source xorg-x11-server-Xvnc-source xorg-x11-server-common xorg-x11-server-devel xorg-x11-server-source	MIT/X11
xorg-x11-server-utils	xorg-x11-server-utils	MIT/X11
xorg-x11-xauth	xorg-x11-xauth	MIT/X11
xorg-x11-xkb-utils	xorg-x11-xkb-utils xorg-x11-xkb-extras	MIT/X11
yum-metadata-parser	yum-metadata-parser yum-metadata-parser	GPL GPLv2 starting 5.2
dnsmasq	dnsmasq dnsmasq dnsmasq-utils	GPL GPLv2 or GPLv3 starting 6.0
watchdog	watchdog watchdog	GPL GPL+ starting 5.4
yum-utils	yum-changelog yum-downloadonly yum-kmod yum-protectbase yum-security yum-skip-broken yum-updateonboot	GPL GPLv2+ starting 5.3

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	yum-utils	
	yum-versionlock	
	yum-aliases	
	yum-basearchonly	
	yum-filter-data	
	yum-list-data	
	yum-protect-packages	
	yum-aliases	
	yum-changelog	
	yum-downloadonly	
	yum-fastestmirror	
	yum-filter-data	
	yum-keys	
	yum-kmod	
	yum-list-data	
	yum-NetworkManager-dispatcher	
	yum-protectbase	
	yum-protect-packages	
	yum-security	
	yum-tmprepo	
	yum-updateonboot	
	yum-utils	
	yum-verify	
	yum-versionlock	
	yum-plugin-aliases	
	yum-plugin-auto-update-debug-info	
	yum-plugin-changelog	
	yum-plugin-downloadonly	
	yum-plugin-fastestmirror	
	yum-plugin-filter-data	
	yum-plugin-fs-snapshot	
	yum-plugin-keys	
	yum-plugin-list-data	
	yum-plugin-local	
	yum-plugin-merge-conf	
	yum-plugin-post-transaction-actions	
	yum-plugin-priorities	
	yum-plugin-protectbase	
	yum-plugin-protect-packages	

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	yum-plugin-remove-with-leaves	
	yum-plugin-rpm-warm-cache	
	yum-plugin-security	
	yum-plugin-show-leaves	
	yum-plugin-tmprepo	
	yum-plugin-tsflags	
	yum-plugin-upgrade-helper	
	yum-plugin-verify	
	yum-plugin-versionlock	
	yum-priorities	
	yum-plugin-ps	
python-iniparse	python-iniparse	MIT
rsyslog	rsyslog	GPLv2+
	rsyslog-mysql	GPLv3+ starting 5.5
	rsyslog	(GPLv3+ and ASL 2.0) starting 6.3
	rsyslog-gnutls	
	rsyslog-gssapi	
	rsyslog-mysql	
	rsyslog-pgsql	
	rsyslog-relp	
	rsyslog-snmp	
	rsyslog	
	rsyslog-gnutls	
	rsyslog-gssapi	
	rsyslog-mysql	
	rsyslog-pgsql	
	rsyslog-relp	
	rsyslog-snmp	
fipscheck	fipscheck	BSD
	fipscheck	
	fipscheck-devel	
	fipscheck-devel	
	fipscheck-lib	
java-1.6.0-openjdk	java-1.6.0-openjdk	GPLv2 with exceptions
	java-1.6.0-openjdk-demo	ASL 1.1, ASL 2.0, GPL+, GPLv2, GPLv2 with exceptions, LGPL+, LGPLv2, MPLv1.0, MPLv1.1, Public Domain, W3C starting 5.6
	java-1.6.0-openjdk-devel	
	java-1.6.0-openjdk-javadoc	

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	java-1.6.0-openjdk-src	
	java-1.6.0-openjdk	
	java-1.6.0-openjdk-demo	
	java-1.6.0-openjdk-devel	
	java-1.6.0-openjdk-javadoc	
	java-1.6.0-openjdk-src	
	java-1.6.0-openjdk-plugin	
perl-Archive-Zip	perl-Archive-Zip	GPL or Artistic
	perl-Archive-Zip	GPL+ or Artistic starting 6.0
sgpio	sgpio	GPLv2+
celt051	celt051	BSD
	celt051-devel	
fuse	fuse	GPL+
	fuse-devel	
	fuse-libs	
gnupg2	gnupg2	GPLv3+
	gnupg2-smime	
libpciaccess	libpciaccess	MIT
	libpciaccess-devel	
log4cpp	log4cpp	LGPLv2+
	log4cpp-devel	
	log4cpp-docs	
perl-Sys-Virt	perl-Sys-Virt	GPLv2+ or Artistic
pinentry	pinentry	GPLv2+
	pinentry-gtk	
	pinentry-qt	
	pinentry-qt4	
pth	pth	LGPLv2+
	pth-devel	
gpxe	gpxe-roms-qemu	GPLv2 and BSD
	gpxe-bootimgs	
tunctl	tunctl	GPL+
xz	xz	LGPLv2+
	xz-devel	
	xz-devel	
	xz-libs	
	xz-libs	
	xz-lzma-compat	
ebtables	ebtables	GPLv2+

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
libtdb	libtdb libtdb-devel tdb-tools python-tdb	LGPLv3+
python-pycurl	python-pycurl python-pycurl	LGPL LGPLv2+ or MIT starting 6.0
ql2xxx-firmware	ql2xxx-firmware	Redistributable, no modification permitted
bwidget	bwidget	TCL
ca-certificates	ca-certificates	Public Domain
cairo-spice	cairo-spice cairo-spice-devel	LGPLv2 or MPLv1.1
chrpath	chrpath	GPL+
cloog	cloog-ppl cloog-ppl-devel	GPLv2+
compat-libcap1	compat-libcap1	BSD-like and LGPL
ConsoleKit	ConsoleKit ConsoleKit-devel ConsoleKit-docs ConsoleKit-libs ConsoleKit-x11	GPLv2+
cronie	cronie cronie-anacron cronie-noanacron	MIT and BSD and ISC and GPLv2
dash	dash	BSD
deltarpm	deltaiso deltarpm drpmsync python-deltarpm	BSD
DeviceKit-power	DeviceKit-power DeviceKit-power-devel DeviceKit-power-devel-docs	GPLv2+
dmz-cursor-themes	dmz-cursor-themes	CC-BY-SA
eggdbus	eggdbus eggdbus-devel	LGPLv2
ffmpeg-spice	ffmpeg-spice-devel ffmpeg-spice-libs	GPLv2+
gnome-packagekit	gnome-packagekit gnome-packagekit-extra	GPLv2+
gpgme	gpgme	LGPLv2+

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	gpgme-devel	
grubby	grubby	GPLv2+
hal-info	hal-info	AFL or GPLv2
ipmitool	ipmitool	BSD
isomd5sum	isomd5sum isomd5sum-devel	GPLv2+
jasper	jasper jasper-devel jasper-libs jasper-utils	JasPer
jline	jline	BSD
libarchive	libarchive libarchive-devel	BSD
libasyncns	libasyncns libasyncns-devel	LGPLv2+
libcap-ng	libcap-ng libcap-ng-devel libcap-ng-python libcap-ng-utils	LGPLv2+
libcgroup	libcgroup libcgroup-devel libcgroup-pam	LGPLv2+
libedit	libedit libedit-devel	BSD
libffi	libffi libffi-devel	BSD
libgssglue	libgssglue libgssglue-devel	GPL+
libnih	libnih libnih-devel	GPLv2
libpcap	libpcap libpcap-devel	BSD with advertising
libproxy	libproxy libproxy-bin libproxy-devel libproxy-gnome libproxy-kde libproxy-mozjs libproxy-python	LGPLv2+

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	libproxy-webkit	
libsamplerate	libsamplerate libsamplerate-devel	GPLv2+
libsndfile	libsndfile libsndfile-devel	LGPLv2+ and GPLv2+ and BSD
libssh2	libssh2 libssh2-devel libssh2-docs	BSD
libtasn1	libtasn1 libtasn1-devel libtasn1-tools	GPLv3+ and LGPLv2+
libthai	libthai libthai-devel	LGPLv2+
libtirpc	libtirpc libtirpc-devel	SISSL and BSD
libusb1	libusb1 libusb1-devel libusb1-static	LGPLv2+
libxcb	libxcb libxcb-devel libxcb-doc libxcb-python	MIT
lua	lua lua-devel lua-static	MIT
lzo	lzo lzo-devel lzo-minilzo	GPLv2+
mcpp	libmcpp libmcpp-devel mcpp mcpp-doc	BSD
mpfr	mpfr mpfr-devel	LGPLv2+ and GPLv2+ and GFDL
nss-pam-ldapd	nss-pam-ldapd	LGPLv2+
nss-softokn	nss-softokn nss-softokn-devel nss-softokn-freebl	MPLv1.1 or GPLv2+ or LGPLv2+

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	nss-softokn-freebl-devel	
nss-util	nss-util nss-util-devel	MPLv1.1 or GPLv2+ or LGPLv2+
PackageKit	PackageKit PackageKit-backend-devel PackageKit-browser-plugin PackageKit-command-not-found PackageKit-cron PackageKit-debug-install PackageKit-device-rebind PackageKit-docs PackageKit-glib PackageKit-glib-devel PackageKit-gstreamer-plugin PackageKit-gtk-module PackageKit-qt PackageKit-qt-devel PackageKit-yum PackageKit-yum-plugin	GPLv2+
pakchois	pakchois pakchois-devel	LGPLv2+
pam_ldap	pam_ldap	LGPLv2+
perl-Algorithm-Diff	perl-Algorithm-Diff	GPL+ or Artistic
perl-AppConfig	perl-AppConfig	GPL+ or Artistic
perl-Authen-SASL	perl-Authen-SASL	GPL+ or Artistic
perl-Class-Data-Inheritable	perl-Class-Data-Inheritable	GPL+ or Artistic
perl-Class-Inspector	perl-Class-Inspector	GPL+ or Artistic
perl-Class-Singleton	perl-Class-Singleton	GPL+ or Artistic
perl-Convert-BinHex	perl-Convert-BinHex	GPL+ or Artistic
perl-Crypt-OpenSSL-Bignum	perl-Crypt-OpenSSL-Bignum	GPL+ or Artistic
perl-Crypt-OpenSSL-Random	perl-Crypt-OpenSSL-Random	GPL+ or Artistic
perl-Crypt-OpenSSL-RSA	perl-Crypt-OpenSSL-RSA	GPL+ or Artistic
perl-Crypt-PasswdMD5	perl-Crypt-PasswdMD5	GPL+ or Artistic
perl-Data-OptList	perl-Data-OptList	GPL+ or Artistic

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
perl-Date-Manip	perl-Date-Manip	GPL+ or Artistic
perl-DateTime	perl-DateTime	GPL+ or Artistic
perl-DateTime-Format-W3CDTF	perl-DateTime-Format-W3CDTF	GPL+ or Artistic
perl-Devel-Cover	perl-Devel-Cover	GPL+ or Artistic
perl-Devel-StackTrace	perl-Devel-StackTrace	GPL+ or Artistic
perl-Devel-Symdump	perl-Devel-Symdump	GPL+ or Artistic
perl-Email-Date-Format	perl-Email-Date-Format	GPL+ or Artistic
perl-Exception-Class	perl-Exception-Class	GPL+ or Artistic
perl-File-Find-Rule	perl-File-Find-Rule	GPL+ or Artistic
perl-File-HomeDir	perl-File-HomeDir	GPL+ or Artistic
perl-File-Remove	perl-File-Remove	GPL+ or Artistic
perl-File-Slurp	perl-File-Slurp	GPL+ or Artistic
perl-File-Which	perl-File-Which	GPL+ or Artistic
perl-GSSAPI	perl-GSSAPI	GPL+ or Artistic
perl-Hook-LexWrap	perl-Hook-LexWrap	GPL+ or Artistic
perl-IO-stringy	perl-IO-stringy	GPL+ or Artistic
perl-IPC-Run3	perl-IPC-Run3	(GPL+ or Artistic) or BSD
perl-JSON	perl-JSON	GPL+ or Artistic
perl-List-MoreUtils	perl-List-MoreUtils	GPL+ or Artistic
perl-MailTools	perl-MailTools	GPL+ or Artistic
perl-MIME-Lite	perl-MIME-Lite	GPL+ or Artistic
perl-MIME-tools	perl-MIME-tools	GPL+ or Artistic
perl-MIME-Types	perl-MIME-Types	GPL+ or Artistic
perl-Module-Install	perl-Module-Install	GPL+ or Artistic
perl-Module-ScanDeps	perl-Module-ScanDeps	GPL+ or Artistic
perl-NetAddr-IP	perl-NetAddr-IP	Artistic 2.0
perl-Net-Jabber	perl-Net-Jabber	(GPL+ or Artistic) or LGPLv2+
perl-Net-LibIDN	perl-Net-LibIDN	GPL+ or Artistic
perl-Net-SMTP-SSL	perl-Net-SMTP-SSL	GPL+ or Artistic
perl-Net-XMPP	perl-Net-XMPP	(GPL+ or Artistic) or LGPLv2+
perl-Newt	perl-Newt	GPL+ or Artistic
perl-Number-Compare	perl-Number-Compare	GPL+ or Artistic
perl-Params-Util	perl-Params-Util	GPL+ or Artistic
perl-Params-Validate	perl-Params-Validate	GPL+ or Artistic

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
perl-PAR-Dist	perl-PAR-Dist	GPL+ or Artistic
perl-Pod-Coverage	perl-Pod-Coverage	GPL+ or Artistic
perl-Pod-POM	perl-Pod-POM	GPL+ or Artistic
perl-Probe-Perl	perl-Probe-Perl	GPL+ or Artistic
perl-Readonly	perl-Readonly	GPL+ or Artistic
perl-Readonly-XS	perl-Readonly-XS	GPL+ or Artistic
perl-SOAP-Lite	perl-SOAP-Lite	GPL+ or Artistic
perl-Spiffy	perl-Spiffy	GPL+ or Artistic
perl-Sub-Exporter	perl-Sub-Exporter	GPL+ or Artistic
perl-Sub-Install	perl-Sub-Install	GPL+ or Artistic
perl-Sub-Uplevel	perl-Sub-Uplevel	GPL+ or Artistic
perl-Task-Weaken	perl-Task-Weaken	GPL+ or Artistic
perl-Template-Toolkit	perl-Template-Toolkit	GPL+ or Artistic
perl-TermReadKey	perl-TermReadKey	Copyright only
perl-Test-Base	perl-Test-Base	GPL+ or Artistic
perl-Test-Exception	perl-Test-Exception	GPL+ or Artistic
perl-Test-Output	perl-Test-Output	GPL+ or Artistic
perl-Test-Pod	perl-Test-Pod	GPL+ or Artistic
perl-Test-Tester	perl-Test-Tester	Artistic clarified
perl-TeX-Hyphen	perl-TeX-Hyphen	GPL+ or Artistic
perl-Text-Autoformat	perl-Text-Autoformat	GPL+ or Artistic
perl-Text-Diff	perl-Text-Diff	GPL+ or Artistic
perl-Text-Glob	perl-Text-Glob	GPL+ or Artistic
perl-Text-Iconv	perl-Text-Iconv	GPL+ or Artistic
perl-Text-Reform	perl-Text-Reform	GPL+ or Artistic
perl-Text-Unidecode	perl-Text-Unidecode	GPL+ or Artistic
perl-Time-modules	perl-Time-modules	Copyright only and Public Domain
perl-Tree-DAG_Node	perl-Tree-DAG_Node	GPL+ or Artistic
perl-WWW-Curl	perl-WWW-Curl	MPLv1.1 or MIT
perl-XML-DOM	perl-XML-DOM	GPL+ or Artistic
perl-XML-Filter-BufferText	perl-XML-Filter-BufferText	GPL+ or Artistic
perl-XML-RegExp	perl-XML-RegExp	GPL+ or Artistic
perl-XML-SAX-Writer	perl-XML-SAX-Writer	GPL+ or Artistic
perl-XML-Stream	perl-XML-Stream	(GPL+ or Artistic) or LGPLv2+
perl-YAML	perl-YAML	GPL+ or Artistic
perl-YAML-Syck	perl-YAML-Syck	BSD and MIT and Public Domain and GPLv2+
perl-YAML-Tiny	perl-YAML-Tiny	GPL+ or Artistic

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
pixman	pixman pixman-devel	MIT
pixman-spice	pixman-spice pixman-spice-devel	MIT
plymouth	plymouth plymouth-core-libs plymouth-devel plymouth-gdm-hooks plymouth-graphics-libs plymouth-plugin-fade-throbber plymouth-plugin-label plymouth-plugin-script plymouth-plugin-space-flares plymouth-plugin-throbgress plymouth-plugin-two-step plymouth-scripts plymouth-system-theme plymouth-theme-fade-in plymouth-theme-rings plymouth-theme-script plymouth-theme-solar plymouth-theme-spinfinity plymouth-utils	GPLv2+
polkit	polkit polkit-desktop-policy polkit-devel polkit-docs	LGPLv2+
popt	popt popt-devel popt-static	MIT
portreserve	portreserve	GPLv2+
ppl	ppl ppl-devel ppl-docs ppl-gprolog ppl-gprolog-static ppl-java ppl-java-javadoc ppl-pwl	GPLv3+

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	ppl-pwl-devel	
	ppl-pwl-docs	
	ppl-pwl-static	
	ppl-static	
	ppl-swiprolog	
	ppl-swiprolog-static	
	ppl-utils	
	ppl-yap	
pulseaudio	pulseaudio	LGPLv2+
	pulseaudio-esound-compat	
	pulseaudio-gdm-hooks	
	pulseaudio-libs	
	pulseaudio-libs-devel	
	pulseaudio-libs-glib2	
	pulseaudio-libs-zeroconf	
	pulseaudio-module-bluetooth	
	pulseaudio-module-gconf	
	pulseaudio-module-x11	
	pulseaudio-module-zeroconf	
	pulseaudio-utils	
pygpgme	pygpgme	LGPLv2+
python-ethtool	python-ethtool	GPLv2
python-gudev	python-gudev	LGPLv3+
python-slip	python-slip	GPLv2+
	python-slip-dbus	
	python-slip-gtk	
ql2100-firmware	ql2100-firmware	Redistributable, no modification permitted
ql2200-firmware	ql2200-firmware	Redistributable, no modification permitted
ql23xx-firmware	ql23xx-firmware	Redistributable, no modification permitted
ql2400-firmware	ql2400-firmware	Redistributable, no modification permitted
ql2500-firmware	ql2500-firmware	Redistributable, no modification permitted
rarian	rarian	LGPLv2+
	rarian-compat	
	rarian-devel	
centos-indexhtml	centos-indexhtml	Distributable
rhino	rhino	GPL+ and LGPL+ and Netscape and MPLv1.0 and (MPLv1.1 or GPLv2+)

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
	rhino-demo	GPL+ and LGPLv2+ and Netscape and MPLv1.0 and (MPLv1.1 or GPLv2+) starting 5.7
	rhino-javadoc	
	rhino	
	rhino-javadoc	
rng-tools	rng-tools	GPLv2+
rpcbind	rpcbind	GPL
rtkit	rtkit	GPLv3+ and BSD
sound-theme-freedesktop	sound-theme-freedesktop	GPLv2+ and LGPLv2+ and CC-BY-SA and CC-BY
system-config-date-docs	system-config-date-docs	GPLv2+
system-config-firewall	system-config-firewall	GPLv2+
	system-config-firewall-base	
	system-config-firewall-tui	
system-gnome-theme	system-gnome-theme	GPLv2+
system-icon-theme	system-icon-theme	GPLv2+
system-setup-keyboard	system-setup-keyboard	MIT
unique	unique	LGPLv2+
	unique-devel	
upstart	upstart	GPLv2 and LGPLv2+
ustr	ustr	MIT or LGPLv2+ or BSD
	ustr-debug	
	ustr-debug-static	
	ustr-devel	
	ustr-static	
util-linux-ng	libblkid	GPLv1+ and GPLv2 and GPLv2+ and LGPLv2+ and MIT and BSD with advertising and Public Domain
	libblkid-devel	
	libuuid	
	libuuid-devel	
	util-linux-ng	
	uuidd	
xcb-util	xcb-util	MIT
	xcb-util-devel	
xdg-utils	xdg-utils	MIT

Source RPM Name	Associated Binary RPM Names (may be i386.rpm, x86_64.rpm or noarch.rpm)	License
lzop	lzop	GPLv2+
perl-XML-Writer	perl-XML-Writer	MIT
qemu-kvm	qemu-img qemu-kvm qemu-kvm-tools qemu-guest-agent	GPLv2+ and LGPLv2+ and BSD
seabios	seabios	LGPLv3
spice-server	spice-server spice-server-devel spice-server spice-server-devel	GPLv2+ LGPLv2+ starting 6.1
vgabios	vgabios	LGPLv2
perl-IO-Tty	perl-IO-Tty	GPL+ or Artistic
perl-Parse-RecDescent	perl-Parse-RecDescent	GPL+ or Artistic
sgabios	sgabios sgabios-bin	ASL 2.0
gnome-doc-utils	gnome-doc-utils	GPLv2+ and LGPLv2+ and GFDL starting 6.0
libjpeg-turbo	libjpeg-turbo	wxWidgets
libogg	libogg	BSD
libpng	libpng	OSI certified zlib starting 4.6
libsamplerate	libsamplerate	GPLv2+
libxslt	libxslt	MIT
centos-release	centos-release	GPL
i2c-tools	i2c-tools i2c-tools-eepromer	GPLv2+
numad	numad	LGPLv2
usbredir	usbredir usbredir-devel usbredir-server	LGPLv2+
redhat-logos	redhat-logos	Copyright 1999-2010 Red Hat, Inc. All rights reserved.
iscsi-initiator-utils	iscsi-initiator-utils	GPLv2+
radvd	radvd	BSD with advertising
SDL	SDL	LGPLv2+

APPENDIX A - GNU General Public License, version 2 (GPL-2.0)

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.
To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.
1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with

the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

> **a)** You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
>
> **b)** You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
>
> **c)** If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

> **a)** Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
>
> **b)** Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
>
> **c)** Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.
If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.
It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.
This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free

Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY
11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Appendix B: GNU General Public License, version 2 (GPL-2.1)

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.
We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this

license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.
We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".
A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.
The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law:

that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- **a)** The modified work must itself be a software library.
- **b)** You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- **c)** You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- **d)** If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

  (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.
This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- **a)** Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- **b)** Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

- **c)** Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- **d)** If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- **e)** Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- **a)** Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- **b)** Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.
If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other

circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

APPENDIX C - GNU General Public License, version 3 (GPL-3.0)

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.
The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.
When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.
To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.
For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.
Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.
For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.
Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.
Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.
"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.
"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.
To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.
A "covered work" means either the unmodified Program or a work based on the Program.
To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or

modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law

fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product

that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

- d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

- e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable

law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to

receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party

based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007. Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.
If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.
Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE

PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

APPENDIX D - GNU Lesser General Public License, version 2.0 (LGPL-2)

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copiesof this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.
When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.
To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.
For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.
We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.
Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.
Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.
The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1

and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add

an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY
11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

APPENDIX E - GNU Lesser General Public License, version 2.1 (LGPL-2.1)

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to

run.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".
A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.
The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- **a)** The modified work must itself be a software library.
- **b)** You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- **c)** You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- **d)** If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

  (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- **a)** Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under

Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

- **b)** Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- **c)** Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- **d)** If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- **e)** Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- **a)** Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- **b)** Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY
15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR

INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

APPENDIX F - GNU Lesser General Public License, version 3 (LGPL-3)

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:
a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or
b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated

material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:
a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.
b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:
a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.
b) Accompany the Combined Work with a copy of the GNU GPL and this license document.
c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.
d) Do one of the following: _ 0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.
1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:
_ a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.
_ b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU

Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

APPENDIX G – Apache License, version 1.1 (APACHE 1.1)

```
/* ====================================================================
 * The Apache Software License, Version 1.1
 *
 * Copyright (c) 2000 The Apache Software Foundation.  All rights
 * reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 *
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in
 *    the documentation and/or other materials provided with the
 *    distribution.
 *
 * 3. The end-user documentation included with the redistribution,
 *    if any, must include the following acknowledgment:
 *       "This product includes software developed by the
 *        Apache Software Foundation (http://www.apache.org/)."
 *    Alternately, this acknowledgment may appear in the software itself,
 *    if and wherever such third-party acknowledgments normally appear.
 *
 * 4. The names "Apache" and "Apache Software Foundation" must
 *    not be used to endorse or promote products derived from this
 *    software without prior written permission. For written
 *    permission, please contact apache@apache.org.
 *
 * 5. Products derived from this software may not be called "Apache",
 *    nor may "Apache" appear in their name, without prior written
 *    permission of the Apache Software Foundation.
 *
 * THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED
 * WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
 * DISCLAIMED.  IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR
 * ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
 * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
 * LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
 * USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
 * ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
 * OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
 * OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 * ====================================================================
 *
```

```
* This software consists of voluntary contributions made by many
* individuals on behalf of the Apache Software Foundation.  For more
* information on the Apache Software Foundation, please see
* <http://www.apache.org/>.
*
* Portions of this software are based upon public domain software
* originally written at the National Center for Supercomputing Applications,
* University of Illinois, Urbana-Champaign.
*/
```

APPENDIX H – Apache License, version 2.0 (APACHE 2.0)

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
a.You must give any other recipients of the Work or Derivative Works a copy of this License; and
b.You must cause any modified files to carry prominent notices stating that You changed the files; and
c.You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
d.If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

 You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR

PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.