AIX IPL progress codes

This section provides descriptions for the numbers and characters that display on the operator panel and descriptions of the location codes used to identify a particular item.

Note:
The AIX IPL progress codes occur on only when running AIX or booting standalone diagnostics. The codes do not occur on servers that run Linux or on Linux partitions.

Operator panel display numbers

This section contains a list of the various numbers and characters that display in the operator panel display. There are three categories of numbers and characters. The first group tracks the progress of the configuration program. The second group tracks the progress of the diagnostics. The third group provides information about messages that follow an `888` sequence.

AIX configuration program indicators

The numbers in this list display on the operator panel as the system loads the AIX operating system and prepares the hardware by loading software drivers.

Note:
Some systems may produce 4-digit codes. If the leftmost digit of a 4-digit code is 0, use the three rightmost digits.

Progress code	Description/Action
2E6	The PCI Differential Ultra SCSI adapter or the Universal PCI Differential Ultra SCSI adapter being configured.
2E7	Configuration method unable to determine if the SCSI adapter type is SE or DE type.
440	9.1GB Ultra SCSI Disk Drive being identified or configured.
441	18.2 GB Ultra SCSI Disk Drive being identified or configured.
444	2-Port Multiprotocol PCI Adapter (ASIC) being identified or configured.
447	PCI 64-bit Fibre Channel Arbitrated Loop Adapter being configured.
458	36 GB DAT72 Tape Drive
459	36 GB DAT72 Tape Drive
500	Querying Standard I/O slot.
501	Querying card in Slot 1.
502	Querying card in Slot 2.
503	Querying card in Slot 3.
504	Querying card in Slot 4.
505	Querying card in Slot 5.
506	Querying card in Slot 6.
507	Querying card in Slot 7.

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Progress code	Description/Action
508	Querying card in Slot 8.
510	Starting device configuration.
511	Device configuration completed.
512	Restoring device configuration files from media.
513	Restoring basic operating system installation files from media.
516	Contacting server during network boot.
517	Mounting client remote file system during network IPL.
518	Remote mount of the **root (/)** and **/usr** file systems failed during network boot.
520	Bus configuration running.
521	**/etc/init** invoked **cfgmgr** with invalid options; **/etc/init** has been corrupted or incorrectly modified (irrecoverable error).
522	The configuration manager has been invoked with conflicting options (irrecoverable error).
523	The configuration manager is unable to access the ODM database (irrecoverable error).
524	The configuration manager is unable to access the **config.rules** object in the ODM database (irrecoverable error).
525	The configuration manager is unable to get data from a customized device object in the ODM database (irrecoverable error).
526	The configuration manager is unable to get data from a customized device driver object in the ODM database (irrecoverable error).
527	The configuration manager was invoked with the phase 1 flag; running phase 1 at this point is not permitted (irrecoverable error).
528	The configuration manager cannot find sequence rule, or no program name was specified in the ODM database (irrecoverable error).
529	The configuration manager is unable to update ODM data (irrecoverable error).
530	The **savebase** program returned an error.
531	The configuration manager is unable to access the **PdAt** object class (irrecoverable error).
532	There is not enough memory to continue (malloc failure); irrecoverable error.
533	The configuration manager could not find a configuration method for a device.
534	The configuration manager is unable to acquire database lock (irrecoverable error).
535	HIPPI diagnostics interface driver being configured.
536	The configuration manager encountered more than one sequence rule specified in the same phase (irrecoverable error).
537	The configuration manager encountered an error when invoking the program in the sequence rule.

AIX IPL progress codes

Progress code	Description/Action
538	The configuration manager is going to invoke a configuration method.
539	The configuration method has terminated, and control has returned to the configuration manager.
541	A DLT tape device is being configured.
549	Console could not be configured for the Copy a System Dump Menu.
551	IPL vary-on is running.
552	IPL vary-on failed.
553	IPL phase 1 is complete.
554	The boot device could not be opened or read, or unable to define NFS swap device during network boot.
555	An ODM error occurred when trying to vary-on the rootvg, or unable to create an NFS swap device during network boot.
556	Logical Volume Manager encountered error during IPL vary-on.
557	The root file system does not mount.
558	There is not enough memory to continue the system IPL.
559	Less than 2 MB of good memory are available to load the AIX kernel.
569	FCS SCSI protocol device is being configured (32 bits).
570	Virtual SCSI devices being configured.
571	HIPPI common function device driver being configured.
572	HIPPI IPI-3 master transport driver being configured.
573	HIPPI IPI-3 slave transport driver being configured.
574	HIPPI IPI-3 transport services user interface device driver being configured.
575	A 9570 disk-array driver being configured.
576	Generic async device driver being configured.
577	Generic SCSI device driver being configured.
578	Generic commo device driver being configured.
579	Device driver being configured for a generic device.
580	HIPPI TCP/IP network interface driver being configured.
581	Configuring TCP/IP.
582	Configuring Token-Ring data link control.
583	Configuring an Ethernet data link control.
584	Configuring an IEEE Ethernet data link control.
585	Configuring an SDLC MPQP data link control.
586	Configuring a QLLC X.25 data link control.
587	Configuring a NETBIOS.

AIX IPL progress codes

Progress code	Description/Action
588	Configuring a Bisync Read-Write (BSCRW).
589	SCSI target mode device being configured.
590	Diskless remote paging device being configured.
591	Configuring an LVM device driver.
592	Configuring an HFT device driver.
593	Configuring SNA device drivers.
594	Asynchronous I/O being defined or configured.
595	X.31 pseudo-device being configured.
596	SNA DLC/LAPE pseudo-device being configured.
597	OCS software being configured.
598	OCS hosts being configured during system reboot.
599	Configuring FDDI data link control.
59B	FCS SCSI protocol device being configured (64 bits).
5C0	Streams-based hardware drive being configured.
5C1	Streams-based X.25 protocol being configured.
5C2	Streams-based X.25 COMIO emulator driver being configured
5C3	Streams-based X.25 TCP/IP interface driver being configured.
5C4	FCS adapter device driver being configured.
5C5	SCB network device driver for FCS being configured.
5C6	AIX SNA channel being configured.
600	Starting network boot portion of **/sbin/rc.boot**.
602	Configuring network parent devices.
603	**/usr/lib/methods/defsys, /usr/lib/methods/cfgsys,** or **/usr/lib/methods/cfgbus** failed.
604	Configuring physical network boot device.
605	Configuration of physical network boot device failed.
606	Running **/usr/sbin/ifconfig** on logical network boot device.
607	**/usr/sbin/ifconfig** failed.
608	Attempting to retrieve the **client.info** file with **tftp**. **Note:** Note that a flashing 608 indicates multiple attempt(s) to retrieve the **client_info** file are occurring.
609	The **client.info** file does not exist or it is zero length.
60B	18.2 GB 68-pin LVD SCSI Disk Drive being configured.
610	Attempting remote mount of NFS file system.
611	Remote mount of the NFS file system failed.

AIX IPL progress codes

Progress code	Description/Action
612	Accessing remote files; unconfiguring network boot device.
614	Configuring local paging devices.
615	Configuration of a local paging device failed.
616	Converting from diskless to dataless configuration.
617	Diskless to dataless configuration failed.
618	Configuring remote (NFS) paging devices.
619	Configuration of a remote (NFS) paging device failed.
61B	36.4 GB 80-pin LVD SCSI Disk Drive being configured.
61D	36.4 GB 80-pin LVD SCSI Disk Drive being configured.
61E	18.2 GB 68-pin LVD SCSI Disk Drive being configured.
620	Updating special device files and ODM in permanent file system with data from boot RAM file system.
621	9.1 GB LVD 80-pin SCSI Drive being configured.
622	Boot process configuring for operating system installation.
62D	9.1 GB 68-pin LVD SCSI Disk Drive being configured.
62E	9.1GB 68-pin LVD SCSI Disk Drive being configured.
636	TURBOWAYS® 622 Mbps PCI MMF ATM Adapter.
637	Dual Channel PCI-2 Ultra2 SCSI Adapter being configured.
638	4.5 GB Ultra SCSI Single Ended Disk Drive being configured.
639	9.1 GB 10K RPM Ultra SCSI Disk Drive (68-pin).
643	18.2 GB LVD 80-pin SCA-2 connector SCSI Disk Drive being configured.
63A	See 62D.
63B	9.1 GB 80-pin LVD SCSI Disk Drive being configured.
63C	See 60B.
63D	18.2 GB 80-pin LVD SCSI Disk Drive being configured.
63E	36.4 GB 68-pin LVD SCSI Disk Drive being configured.
63F	See 61B.
640	9.1 GB 10K RPM Ultra SCSI Disk Drive (80-pin).
646	High-Speed Token-Ring PCI Adapter being configured.
64A	See 62E.
64B	9.1 GB 80-pin LVD SCSI Disk Drive being configured.
64C	See 61E.
64D	18.2 GB LVD 80-pin Drive/Carrier being configured.
64E	36.4 GB 68-pin LVD SCSI Disk Drive being configured.

AIX IPL progress codes

Progress code	Description/Action
64F	See 61D.
650	SCSD disk drive being configured.
653	18.2 GB Ultra-SCSI 16-bit Disk Drive being configured.
655	GXT130P Graphics adapter being configured.
657	GXT2000P graphics adapter being configured.
658	PCI Fibre Channel Disk Subsystem Controller being identified or configured.
659	2102 Fibre Channel Disk Subsystem Controller Drawer being identified or configured.
660	2102 Fibre Channel Disk Array being identified or configured.
662	Ultra2 Integrated SCSI controller.
663	The ARTIC960RxD Digital Trunk Quad PCI Adapter or the ARTIC960RxF Digital Trunk Resource Adapter being configured.
664	32x (MAX) SCSI-2 CD-ROM drive being configured.
667	PCI 3-Channel Ultra2 SCSI RAID Adapter being configured.
669	PCI Gigabit Ethernet Adapter being configured.
66A	Keyboard/Mouse Attachment Card-PCI being configured.
66C	10/100/1000 Base-T Ethernet PCI Adapter.
66D	PCI 4-Channel Ultra-3 SCSI RAID Adapter.
66E	4.7 GB DVD-RAM drive.
674	ESCON® Channel PCI Adapter being configured.
677	PCI 32-bit Fibre Channel Arbitrated Loop Adapter being configured.
67B	PCI Cryptographic Coprocessor being configured.
682	20x (MAX) SCSI-2 CD-ROM Drive being configured.
689	4.5 GB Ultra SCSI Single Ended Disk Drive being configured.
68C	20 GB 4-mm Tape Drive being configured.
68E	POWER GXT6000P PCI Graphics Adapter.
690	9.1 GB Ultra SCSI Single Ended Disk Drive being configured.
69b	64-bit/66 MHz PCI ATM 155 MMF PCI adapter being configured.
69d	64-bit/66 MHz PCI ATM 155 UTP PCI adapter being configured.
6CC	SSA disk drive being configured.
700	A 1.1 GB 8-bit SCSI disk drive being identified or configured.
701	A 1.1 GB 16-bit SCSI disk drive being identified or configured.
702	A 1.1 GB 16-bit differential SCSI disk drive being identified or configured.
703	A 2.2 GB 8-bit SCSI disk drive being identified or configured.
704	A 2.2 GB 16-bit SCSI disk drive being identified or configured.

AIX IPL progress codes

Progress code	Description/Action
705	The configuration method for the 2.2 GB 16-bit differential SCSI disk drive is being run. If an irrecoverable error occurs, the system halts.
706	A 4.5 GB 16-bit SCSI disk drive being identified or configured.
707	A 4.5 GB 16-bit differential SCSI disk drive being identified or configured.
708	An L2 cache being identified or configured.
709	128 port ISA adapter being configured
710	POWER GXT150M graphics adapter being identified or configured.
711	Unknown adapter being identified or configured.
712	Graphics slot bus configuration is executing.
713	The IBM ARTIC960 device being configured.
714	A video capture adapter being configured.
715	The Ultramedia Services audio adapter being configured. This number displays briefly on the panel.
717	TP Ethernet Adapter being configured.
718	GXT500 Graphics Adapter being configured.
720	Unknown read/write optical drive type being configured.
721	Unknown disk or SCSI device being identified or configured.
722	Unknown disk being identified or configured.
723	Unknown CD-ROM being identified or configured.
724	Unknown tape drive being identified or configured.
725	Unknown display adapter being identified or configured.
726	Unknown input device being identified or configured.
727	Unknown async device being identified or configured.
728	Parallel printer being identified or configured.
729	Unknown parallel device being identified or configured.
730	Unknown diskette drive being identified or configured.
731	PTY being identified or configured.
732	Unknown SCSI initiator type being configured.
733	7 GB 8-mm tape drive being configured.
734	4x SCSI-2 640 MB CD-ROM Drive being configured.
736	Quiet Touch keyboard and speaker cable being configured.
741	1080 MB SCSI Disk Drive being configured.
745	16 GB 4-mm Tape Auto Loader being configured.
746	SCSI-2 Fast/Wide PCI Adapter being configured.
747	SCSI-2 Differential Fast/Wide PCI Adapter being configured.

AIX IPL progress codes

Progress code	Description/Action
749	7331 Model 205 Tape Library being configured.
751	SCSI 32-bit SE F/W RAID Adapter being configured.
754	1.1 GB 16-bit SCSI disk drive being configured.
755	2.2 GB 16-bit SCSI disk drive being configured.
756	4.5 GB 16-bit SCSI disk drive being configured.
757	External 13 GB 1.5M/s 1/4-inch tape being configured.
763	SP Switch MX Adapter being configured.
764	SP System Attachment Adapter being configured.
772	4.5 GB SCSI F/W Disk Drive being configured.
773	9.1 GB SCSI F/W Disk Drive being configured.
774	9.1 GB External SCSI Disk Drive being configured.
776	PCI Token-Ring Adapter being identified or configured.
777	10/100 Ethernet Tx PCI Adapter being identified or configured.
778	POWER GXT3000P 3D PCI Graphics adapter being configured.
77B	4-Port 10/100 Ethernet Tx PCI Adapter being identified or configured.
77c	A 1.0 GB 16-bit SCSI disk drive being identified or configured.
783	4-mm DDS-2 Tape Autoloader being configured.
789	2.6 GB External Optical Drive being configured.
78B	POWER GXT4000P PCI Graphics Adapter.
78D	GXT300P 2D Graphics adapter being configured.
790	Multi-bus Integrated Ethernet Adapter being identified or configured.
797	TURBOWAYS® 155 UTP/STP ATM Adapter being identified or configured.
798	Video streamer adapter being identified or configured.
799	2-Port Multiprotocol PCI adapter being identified or configured.
79c	ISA bus configuration executing.
7C0	CPU/System Interface being configured.
7C1	Business Audio Subsystem being identified or configured.
7cc	PCMCIA bus configuration executing.
800	TURBOWAYS® 155 MMF ATM Adapter being identified or configured.
803	7336 Tape Library robotics being configured.
804	8x Speed SCSI-2 CD-ROM Drive being configured.
806	POWER GXT800 PCI Graphics adapter being configured.
807	SCSI Device Enclosure being configured.
80c	SSA 4-Port Adapter being identified or configured.

AIX IPL progress codes

Progress code	Description/Action
811	Processor complex being identified or configured.
812	Memory being identified or configured.
813	Battery for time-of-day, NVRAM, and so on being identified or configured, or system I/O control logic being identified or configured.
814	NVRAM being identified or configured.
815	Floating-point processor test.
816	Operator panel logic being identified or configured.
817	Time-of-day logic being identified or configured.
819	Graphics input device adapter being identified or configured.
821	Standard keyboard adapter being identified or configured.
823	Standard mouse adapter being identified or configured.
824	Standard tablet adapter being identified or configured.
825	Standard speaker adapter being identified or configured.
826	Serial Port 1 adapter being identified or configured.
827	Parallel port adapter being identified or configured.
828	Standard diskette adapter being identified or configured.
831	3151 adapter being identified or configured, or Serial Port 2 being identified or configured.
834	64-port async controller being identified or configured.
835	16-port async concentrator being identified or configured.
836	128-port async controller being identified or configured.
837	16-port remote async node being identified or configured.
838	Network Terminal Accelerator Adapter being identified or configured.
839	7318 Serial Communications Server being configured.
840	PCI Single-Ended Ultra SCSI Adapter being configured.
841	8-port async adapter (EIA-232) being identified or configured.
842	8-port async adapter (EIA-422A) being identified or configured.
843	8-port async adapter (MIL-STD-188) being identified or configured.
844	7135 RAIDiant Array disk drive subsystem controller being identified or configured.
845	7135 RAIDiant Array disk drive subsystem drawer being identified or configured.
846	RAIDiant Array SCSI 1.3 GB Disk Drive being configured.
847	16-port serial adapter (EIA-232) being identified or configured.
848	16-port serial adapter (EIA-422) being identified or configured.
849	X.25 Interface Coprocessor/2 adapter being identified or configured.
850	Token-Ring network adapter being identified or configured.

AIX IPL progress codes

Progress code	Description/Action
851	T1/J1 Portmaster® adapter being identified or configured.
852	Ethernet adapter being identified or configured.
854	3270 Host Connection Program/6000 connection being identified or configured.
855	Portmaster Adapter/A being identified or configured.
857	FSLA adapter being identified or configured.
858	5085/5086/5088 adapter being identified or configured.
859	FDDI adapter being identified or configured.
85c	Token-Ring High-Performance LAN adapter being identified or configured.
861	Optical adapter being identified or configured.
862	Block Multiplexer Channel Adapter being identified or configured.
865	ESCON Channel Adapter or emulator being identified or configured.
866	SCSI adapter being identified or configured.
867	Async expansion adapter being identified or configured.
868	SCSI adapter being identified or configured.
869	SCSI adapter being identified or configured.
870	Serial disk drive adapter being identified or configured.
871	Graphics subsystem adapter being identified or configured.
872	Grayscale graphics adapter being identified or configured.
874	Color graphics adapter being identified or configured.
875	Vendor generic communication adapter being configured.
876	8-bit color graphics processor being identified or configured.
877	POWER Gt3™/POWER Gt4™ being identified or configured.
878	POWER Gt4™ graphics processor card being configured.
879	24-bit color graphics card, MEV2 being configured.
880	POWER Gt1™ adapter being identified or configured.
887	Integrated Ethernet adapter being identified or configured.
889	SCSI adapter being identified or configured.
890	SCSI-2 Differential Fast/Wide and Single-Ended Fast/Wide Adapter/A being configured.
891	Vendor SCSI adapter being identified or configured.
892	Vendor display adapter being identified or configured.
893	Vendor LAN adapter being identified or configured.
894	Vendor async/communications adapter being identified or configured.
895	Vendor IEEE 488 adapter being identified or configured.

AIX IPL progress codes

Progress code	Description/Action
896	Vendor VME bus adapter being identified or configured.
897	S/370™ Channel Emulator adapter being identified or configured.
898	POWER Gt1x™ graphics adapter being identified or configured.
899	3490 attached tape drive being identified or configured.
89c	A multimedia SCSI CD-ROM being identified or configured.
900	GXT110P Graphics Adapter being identified or configured.
901	Vendor SCSI device being identified or configured.
902	Vendor display device being identified or configured.
903	Vendor async device being identified or configured.
904	Vendor parallel device being identified or configured.
905	Vendor other device being identified or configured.
908	POWER GXT1000 Graphics subsystem being identified or configured.
910	1/4 GB Fiber Channel/266 Standard Adapter being identified or configured.
911	Fiber Channel/1063 Adapter Short Wave being configured.
912	2.0 GB SCSI-2 differential disk drive being identified or configured.
913	1.0 GB differential disk drive being identified or configured.
914	5 GB 8-mm differential tape drive being identified or configured.
915	4 GB 4-mm tape drive being identified or configured.
916	Non-SCSI vendor tape adapter being identified or configured.
917	A 2.0 GB 16-bit differential SCSI disk drive being identified or configured.
918	A 2.0 GB 16-bit single-ended SCSI disk drive being identified or configured.
920	Bridge Box being identified or configured.
921	101 keyboard being identified or configured.
922	102 keyboard being identified or configured.
923	Kanji keyboard being identified or configured.
924	Two-button mouse being identified or configured.
925	Three-button mouse being identified or configured.
926	5083 tablet being identified or configured.
927	5083 tablet being identified or configured.
928	Standard speaker being identified or configured.
929	Dials being identified or configured.
930	Lighted program function keys (LPFK) being identified or configured.
931	IP router being identified or configured.
933	Async planar being identified or configured.

AIX IPL progress codes

Progress code	Description/Action
934	Async expansion drawer being identified or configured.
935	3.5-inch diskette drive being identified or configured.
936	5.25-inch diskette drive being identified or configured.
937	An HIPPI adapter being configured.
938	Serial HIPPI PCI adapter being configured.
942	POWER GXT 100 graphics adapter being identified or configured.
943	A 3480 or 3490 control unit attached to a System/370 Channel Emulator/A adapter are being identified or configured.
944	100 MB ATM adapter being identified or configured.
945	1.0 GB SCSI differential disk drive being identified or configured.
946	Serial port 3 adapter being identified or configured.
947	A 730 MB SCSI disk drive being configured.
948	Portable disk drive being identified or configured.
949	Unknown direct bus-attach device being identified or configured.
950	Missing SCSI device being identified or configured.
951	670 MB SCSI disk drive being identified or configured.
952	355 MB SCSI disk drive being identified or configured.
953	320 MB SCSI disk drive being identified or configured.
954	400 MB SCSI disk drive being identified or configured.
955	857 MB SCSI disk drive being identified or configured.
956	670 MB SCSI disk drive electronics card being identified or configured.
957	120 MB DBA disk drive being identified or configured.
958	160 MB DBA disk drive being identified or configured.
959	160 MB SCSI disk drive being identified or configured.
960	1.37 GB SCSI disk drive being identified or configured.
964	Internal 20 GB 8-mm tape drive identified or configured.
968	1.0 GB SCSI disk drive being identified or configured.
970	Half-inch, 9-track tape drive being identified or configured.
971	150 MB 1/4-inch tape drive being identified or configured.
972	2.3 GB 8-mm SCSI tape drive being identified or configured.
973	Other SCSI tape drive being identified or configured.
974	CD-ROM drive being identified or configured.
975	An optical disk drive being identified or configured.
977	M-Audio Capture and Playback Adapter being identified or configured.

AIX IPL progress codes

Progress code	Description/Action
981	540 MB SCSI-2 single-ended disk drive being identified or configured.
984	1 GB 8-bit disk drive being identified or configured.
985	M-Video Capture Adapter being identified or configured.
986	2.4 GB SCSI disk drive being identified or configured.
987	An Enhanced SCSI CD-ROM drive being identified or configured.
989	200 MB SCSI disk drive being identified or configured.
990	2.0 GB SCSI-2 single-ended disk drive being identified or configured.
991	525 MB 1/4-inch cartridge tape drive being identified or configured.
994	5 GB 8-mm tape drive being identified or configured.
995	1.2GB 1/4-inch cartridge tape drive being identified or configured.
996	A single-port, multiprotocol communications adapter being identified or configured.
997	FDDI adapter being identified or configured.
998	2.0 GB 4-mm tape drive being identified or configured.
999	7137 or 3514 Disk Array Subsystem being configured.
D46	Token-Ring cable.
D81	T2 Ethernet Adapter being configured.
2000	Dynamic LPAR CPU Addition
2001	Dynamic LPAR CPU Removal
2002	Dynamic LPAR Memory Addition
2003	Dynamic LPAR Memory Removal
2004	DLPAR Maximum Memory size too large
2010	HTX miscompare
2011	Configuring device model 2107 fcp
2012	Configuring device model 2107 iscsi
2013	Configuring MR-1750 (device model 1750) fcp
2014	Configuring MR-1750 (device model 1750) iscsi
2015	Configuring SVC (device model 2145) fcp
2016	Configuring SVCCISCO (device model 2062) fcp
2017	Configuring SVCCISCO (device model 2062) iscsi
2018	Configuring Virtual Management Channel driver
2019	Configuring vty server
201b	Configuring Virtual SCSI Optical
2020	Configuring Infiniband ICM kernel component
2021	Configuring TCP Infiniband Interface kernel component

AIX IPL progress codes

Progress code	Description/Action
2512	Configuring PCI-X DDR quad channel Ultra320 SCSI RAID adapter
2513	Configuring PCI-X DDR quad channel Ultra320 SCSI RAID adapter
2514	Configuring PCI-X DDR quad channel Ultra320 SCSI RAID adapter
2520	PCI Dual-Channel Ultra-3 SCSI adapter being identified or configured.
2522	PCI-X Dual Channel Ultra320 SCSI Adapter
2523	PCI-X Ultra320 SCSI RAID Adapter
2526	PCI-X Ultra320 SCSI RAID Battery Pack
2527	PCI-X Quad Channel U320 SCSI RAID Adapter
2528	PCI-X Dual Channel Ultra320 SCSI adapter
2529	PCI-X Dual Channel Ultra320 SCSI RAID adapter
252B	PCI-X DDR Dual Channel Ultra320 SCSI RAID adapter
252D	PCI-X DDR Dual Channel Ultra320 SCSI RAID adapter
2530	10/100 Mbps Ethernet PCI Adapter II being configured.
2533	10 GB Ethernet -SR PCI-X 2.0 DDR adapter being configured
2534	10 GB Ethernet -LR PCI-X 2.0 DDR adapter being configured
2535	4-Port 10/100/1000 Base-TX Ethernet PCI-X Adapter being configured.
2547	Generic 522 bites per sector SCSI JBOD (not osdisk) Disk Drive
254E	Fibre Channel Expansion Card
2562	Keyboard/Mouse Attachment Card-PCI being configured.
2564	Keyboard/Mouse Attachment Card-PCI being configured.
2566	USB 3.5 inch Micro Diskette Drive
2568	USB CD-ROM, Generic
2571	2-Port PCI Asynchronous EIA-232 Adapter
2581	1 GB iSCSI TOE PCI-X adapter is being configured (copper connector)
2582	iSCSI protocol device associated with an iSCSI adapter is being configured
2583	1 GB iSCSI TOE PCI-X adapter being configured (copper connector)
2590	IDE CD-ROM Drive
2591	IDE DVD-ROM Drive being configured.
2592	IDE DVD-ROM Drive being configured.
2593	IDE DVD-RAM Drive being configured.
25A0	I/O Planar Control Logic for IDE devices
25B9	Ethernet Adapter (Fiber)
25C2	Dual Port Gigabit SX Ethernet PCI-X Adapter
25C3	10/100/1000 Base-TX Dual Port PCI-Adapter

AIX IPL progress codes

Progress code	Description/Action
25C4	Broadcom Dual-Port Gpbs Ethernet PCI-X Adapter
2600	PCI 64-bit Fibre Channel Arbitrated Loop Adapter being configured.
2601	PCI 64-bit Fibre Channel Arbitrated Loop Adapter being configured.
2631	Integrated IDE controller
2640	IDE Disk Drive, 2.5 inch
2D01	PCI-X Quad Channel U320 SCSI RAID Battery Pack

AIX diagnostics load-progress indicators

Note:
Some systems might produce 4-digit codes. If the leftmost digit of a 4-digit code is 0, use the three rightmost digits.

Progress code	Description/Action
c00	AIX Install/Maintenance loaded successfully.
c01	Insert the first diagnostic diskette.
c02	Diskettes inserted out of sequence.
c03	The wrong diskette is in diskette drive.
c04	The loading stopped with an irrecoverable error.
c05	A diskette error occurred.
c06	The **rc.boot** configuration shell script is unable to determine type of boot.
c07	Insert the next diagnostic diskette.
c08	RAM file system started incorrectly.
c09	The diskette drive is reading or writing a diskette.
c20	An unexpected halt occurred, and the system is configured to enter the kernel debug program instead of entering a system dump.
c21	The **ifconfig** command was unable to configure the network for the client network host.
c22	The **tftp** command was unable to read client's *ClientHostName*. **info** file during a client network boot.
c24	Unable to read client's *ClientHostName*.**info** file during a client network boot.
c25	Client did not mount remote miniroot during network install.
c26	Client did not mount the **/usr** file system during the network boot.
c29	The system was unable to configure the network device.
c31	Select the console display for the diagnostics. To select No console display, set the key mode switch to Normal, then to Service. The diagnostic programs then load and run the diagnostics automatically. If you continue to get the message, check the cables and make sure you are using the serial port.

AIX IPL progress codes

Progress code	Description/Action
c32	A directly attached display (HFT) was selected.
c33	A TTY terminal attached to serial ports S1 or S2 was selected.
c34	A file was selected. The console messages store in a file.
c35	No console found.
c40	Configuration files are being restored.
c41	Could not determine the boot type or device.
c42	Extracting data files from diskette.
c43	Cannot access the boot/install tape.
c44	Initializing installation database with target disk information.
c45	Cannot configure the console.
c46	Normal installation processing.
c47	Could not create a physical volume identifier (PVID) on disk.
c48	Prompting you for input.
c49	Could not create or form the JFS log.
c50	Creating root volume group on target disks.
c51	No paging devices were found.
c52	Changing from RAM environment to disk environment.
c53	Not enough space in the **/tmp** directory to do a preservation installation.
c54	Installing either BOS or additional packages.
c55	Could not remove the specified logical volume in a preservation installation.
c56	Running user-defined customization.
c57	Failure to restore BOS.
c58	Displaying message to turn the key.
c59	Could not copy either device special files, device ODM, or volume group information from RAM to disk.
c61	Failed to create the boot image.
c62	Loading platform dependent debug files.
c63	Loading platform dependent data files.
c64	Failed to load platform dependent data files.
c70	Problem Mounting diagnostic CD-ROM disc.
c99	Diagnostics have completed. This code is only used when there is no console.
Fxx	(xx is any number) Refer to Firmware chapter of the service manual.

Dump progress indicators (dump status codes)

AIX IPL progress codes

The following dump progress indicators, or dump status codes, are part of a Type 102 message.

Note:
When a lowercase c is listed, it displays in the lower half of the character position. Some systems produce 4-digit codes, the two leftmost positions can have blanks or zeros. Use the two rightmost digits.

Progress code	Description/Action
0c0	The dump completed successfully.
0c1	The dump failed due to an I/O error.
0c2	A dump, requested by the user, is started.
0c3	The dump is inhibited.
0c4	The dump device is not large enough.
0c5	The dump did not start, or the dump crashed.
0c6	Dumping to a secondary dump device.
0c7	Reserved.
0c8	The dump function is disabled.
0c9	A dump is in progress.
0cc	Unknown dump failure.

Crash codes

Note:
Some systems may produce 4-digit codes. If the leftmost digit of a 4-digit code is 0, use the three rightmost digits.

The crash codes that follow are part of a Type 102 message. These crash codes are grouped into three categories:

Category 1
Dump analysis is the appropriate first action in Problem Determination. Begin the Problem Determination process with software support.

Category 2
Dump analysis most likely will not aid in Problem Determination. Begin the Problem Determination process with hardware support.

Category 3
Both software and hardware support may be needed in Problem Determination, go to 888 sequence in operator panel display to assist in problem isolation.

Category 1 crash progress code

Progress code	Description/Action
300	Data storage interrupt from the processor.

AIX IPL progress codes

Progress code	Description/Action
32x	Data storage interrupt because of an I/O exception from IOCC.
38x	Data storage interrupt because of an I/O exception from SLA.
400	Instruction storage interrupt.
700	Program interrupt.

Category 2 crash progress code

Progress code	Description/Action
200	Machine check because of a memory bus error.
201	Machine check because of a memory timeout.
202	Machine check because of a memory card failure.
203	Machine check because of an out of range address.
204	Machine check because of an attempt to write to ROS.
205	Machine check because of an uncorrectable address parity.
206	Machine check because of an uncorrectable ECC error.
207	Machine check because of an unidentified error.
208	Machine check due to an L2 uncorrectable ECC.
500	External interrupt because of a scrub memory bus error.
501	External interrupt because of an unidentified error.
51x	External interrupt because of a DMA memory bus error.
52x	External interrupt because of an IOCC channel check.
53x	External interrupt from an IOCC bus timeout; x represents the IOCC number.
54x	External interrupt because of an IOCC keyboard check.
800	Floating point is not available.

Category 3 crash progress code

Progress code	Description/Action
000	Unexpected system interrupt.
558	There is not enough memory to continue the IPL.
600	AIX 4.3.3.3 and above: Alignment Interrupt. If pre-AIX 4.3.3.3: AIX has crashed because the Portability Assist Layer (PAL) for this machine type has detected a problem.
605	AIX 4.3.3.3 and above: AIX has crashed because the Portability Assist Layer (PAL) for this machine type has detected a problem.

AIX IPL progress codes

AIX LED Indicators

Dump Progress Indicator

0c0	The dump completed successfully
0c2	A user-requested dump has started. You requested a dump using the SYSDUMPSTART command, a dump key sequence, or the Reset button.
0c3	The dump is inhibit
0c4	The dump did not complete. A partial dump was written to the dump device. There is not enough space on the dump device to contain the entire dump. To prevent this problem from occuring again, you must increase the size of your dump media.
0c5	The dump failed to start. An unecpected error occured while the system was attempting to write to the dump media.
0c6	A dump to the secondary dump device was requested. Make the secondary dump device ready, then press CTRL-ALT-NUMPAD2
0c7	Reserved.
0c8	The dump function is disabled. No primary dump device is configured.
0c9	A dump is in progress.

Diagnostics Load Progress Indicators

c00	AIX Install/Maintenance loaded successfully.
c01	Insert the first diagnostic diskette.
c02	Diskettes inserted out of sequence.
c03	The wrong diskette is in the drive.
c04	The loading stopped with an irrecoverable error.
c05	A diskette error occurred.
c08	RAM filesystem started incorrectly.
c07	Insert the next diagnostic diskette.
c09	The diskette drive is reading or writing a diskette.
c20	An unexpected halt occured, and the system is configured to enter the kernel debug program instead of entering a system dump.
c21	The 'ifconfig' command was unable to configure the network for the client network host.
c22	The 'tftp' command was unable to read client's ClientHostName.info file during a client network boot.
c24	Unable to read client's ClientHostName.info file during a client network boot.
c25	Client did not mount remote miniroot during network install.
c26	Client did not mount the /usr filesystem during the network boot.
c29	System was unable to configure the network device.
c31	Select the console display for the diagnostics. To select "No console display", set the key mode switch to normal then to Service. The diagnostic program will then load and run the diagnostics automatically.
c32	A direct-attached display (HFT) was selected.
c33	a TTY terminal attached to serial ports S1 or S2 was selected.
c34	A file was selected. The console messages store in a file
c40	Configuration files are been restored.

AIX IPL progress codes

c41	Could not determine the boot type or device.
c42	Extracting data files from diskette.
c43	Diagboot cannot be accessed.
c44	Initialyzing installation database with target disk information.
c45	Cannot configure the console.
c46	Normal installation processing.
c47	Could not create a physical volume identifier (PVID) on disk.
c48	Prompting you for input.
c49	Could not create or form the JFS log.
c50	Creating rootvg volume group on target disk
c51	No paging space were found.
c52	Changing from RAM environment to disk environment.
c53	Not enough space in the /tmp directory to do a preservation installation.
c54	Installing either BOS or additionnal packages.
c55	Could not remove the specified logical volume in a preservation installation.
c56	Running user-defined customization.
c57	Failure to restore BOS.
c58	Display message to turn the key.
c59	Could not copy either device special files, device ODM, or volume group information from RAM to disk.
c61	Failed to create the boot image.
c99	Diagnostics have completed. This code is only used when there is no console.

Debugger Progress Indicators

c20	Kernel debug program activated. An unexpected system halt has occured, and you have configured the system to enter the kernel debug program instead of performing a dump.

Built-In Self Test (Bist) Indicators

100	BIST completed successfully. Control was passed to IPL ROS.
101	BIST started following RESET.
102	BIST started following Power-on Reset.
103	BIST could not determine the system model number.
104	Equipment conflict. BIST could not find the CBA.
105	BIST could not read the OCS EPROM.
106	BIST detected a module error.
111	OCS stopped. BIST detected a module error.
112	A checkstop occured during BIST.
113	BIST checkstop count is greater than 1.
120	BIST starting a CRC check on the 8752 EPROM.
121	BIST detected a bad CRC in the first 32K of the OCS EPROM.
122	BIST started a CRC check on the first 32K of the OCS EPROM.
123	BIST detected a bad CRC on the OCS area of NVRAM.
124	BIST started a CRC check on the OCS area of NVRAM.
125	BIST detected a bad CRC on the time-of-day area of NVRAM.
126	BIST started a CRC check on the time-of-day area of the NVRAM.
127	BIST detected a bad CRC on the 8752 EPROM.

AIX IPL progress codes

Built-In Self Test (Bist) Indicators (suite)

130	BIST presence test started.
140	BIST failed; procedure error.
142	BIST failed; procedure error.
143	Invalid memory configuration.
144	BIST failed; procedure error.
151	BIST started AIPGM test code.
152	BIST started DCLST test code.
153	BIST started ACLST test code
154	BIST started AST test code.
160	Bad EPOW Signal/Power status signal
180	BIST logout failed.
185	A checkstop condition occured during the BIST
186	System logic-generated checkstop (Model 250 only)
187	Graphics-generated checkstop (Model 250)
195	BIST logout completed.
888	BIST did not start.

Power-On Self Test

200	IPL attempted with keylock in the SECURE position.
201	IPL ROM test failed or checkstop occured (irrecoverable).
202	IPL ROM test failed or checkstop occured (irrecoverable).
203	Unexpected data storage interrupt.
204	Unexpected instruction storage interrupt.
205	Unexpected external interrupt.
206	Unexpected alignment interrupt.
207	Unexpected program interrupt.
208	Unexpected floating point unavailable interrupt.
209	Unexpected SVC interrupt.
20c	L2 cache POST error. (The display shows a solid 20c for 5 seconds
210	Unexpected SVC interrupt.
211	IPL ROM CRC comparison error (irrecoverable).
212	RAM POST memory configuration error or no memory found (irrecoverable).
213	RAM POST failure (irrecoverable).
214	Power status register failed (irrecoverable).
215	A low voltage condition is present (irrecoverable).

Power-On Self Test (suite)

216	IPL ROM code being uncompressed into memory.
217	End of bootlist encountered.
218	RAM POST is looking for 1M bytes of good memory.
219	RAM POST bit map is being generated.
21c	L2 cache is not detected. (The display shows a solid 21c for 5 sec)
220	IPL control block is being initialized.
221	NVRAM CRC comparison error during AIX. IPL(Key Mode Switch in Normal mode). Reset NVRAM by reaccomplishing IPL in Service mode. For systems with an internal, direct-bus-attached(DBA)disk,IPL ROM attempted to perform an IPL from that disk before halting with this three-

AIX IPL progress codes

digit display value.

222 Attempting a Normal mode IPL from Standard I/O planar attached devices specified in NVRAM IPL Devices List.

223 Attempting a Normal mode IPL from SCSI attached devices specified in NVRAM IPL Devices List.

Note: May be caused by incorrect jumper setting for external SCSI devices or by incorrect SCSI terminator. REFER FFC B88

224 Attempting a Normal mode restart from 9333 subsystem device specified in NVRAM device list.

225 Attempting a Normal mode IPL from IBM 7012 DBA disk attached devices specified in NVRAM IPL Devices List.

226 Attempting a Normal mode restart from Ethernet specified in NVRAM device list.

227 Attempting a Normal mode restart from Token Ring specified in NVRAM device list.

228 Attempting a Normal mode IPL from NVRAM expansion code.

229 Attempting a Normal mode IPL from NVRAM IPL Devices List; cannot IPL from any of the listed devices, or there are no valid entry in the Devices List.

22c Attempting a normal mode IPL from FDDI specified in NVRAM IPL device list.

230 Attempting a Normal mode restart from adapter feature ROM specified in IPL ROM devices list.

231 Attempting a Normal mode restart from Ethernet specified in IPL ROM devices list.

232 Attempting a Normal mode IPL from Standard I/O planar attached devices specified in Rom Default Device List.

233 Attempting a Normal mode IPL from SCSI attached devices specified in IPL ROM Default Device List.

234 Attempting a Normal mode restart from 9333 subsystem device specified in IPL ROM device list.

235 Attempting a Normal mode IPL from IBM 7012 DBA disk attached devices specified in IPL ROM Default Device List.

236 Attempting a Normal mode restart from Ethernet specified in IPL ROM default devices list.

237 Attempting a Normal mode restart from Token Ring specified in IPL ROM default device list.

238 Attempting a Normal mode restart from Token Ring specified by the operator.

239 System failed to restart from the device chosen by the operator.

23c Attempting a normal mode IPL from FDDI specified in IPL ROM device list.

240 Attempting a Service mode restart from adapter feature ROM.

241 Attempting a Normal mode IPL from devices specified in the NVRAM IPL Devices List.

242 Attempting a Service mode IPL from Standard I/O planar attached devices specified in NVRAM IPL Devices List.

243 Attempting a Service mode IPL from SCSI attached devices specified in NVRAM IPL Devices List.

244 Attempting a Service mode restart from 9333 subsystem device specified in NVRAM device list.

245 Attempting a Service mode IPL from IBM 7012 DBA disk attached devices specified in NVRAM IPL Devices List.

246 Attempting a Service mode restart from Ethernet specified in NVRAM device list.

AIX IPL progress codes

247	Attempting a Service mode restart from Token Ring specified in NVRAM device list.
248	Attempting a Service mode IPL from NVRAM expansion code.
249	Attempting a Service mode IPL from NVRAM IPL Devices List; cannot IPL from any of the listed devices, or there are no valid entries in the Devices List.
24c	Attempting a service mode IPL from FDDI specified in NVRAM IPL device list.
250	Attempting a Service mode restart from adapter feature ROM specified in IPL ROM device list.
251	Attempting a Service mode restart from Ethernet specified in IPL ROM device list.
252	Attempting a Service mode IPL from standard I/O planar attached devicesspecified in ROM Default Device List.
253	Attempting a Service mode IPL from SCSI attached devices specified in IPL ROM Default Device List.
254	Attempting a Service mode restart from 9333 subsystem device specified in IPL ROM device list.
255	Attempting a Service mode IPL from IBM 7012 DBA disk attached devices specified in IPL ROM Default Devices List.
256	Attempting a Service mode restart from Ethernet specified in IPL ROM default device list.
257	Attempting a Service mode restart from Token Ring specified in IPL ROM default device list.
258	Attempting a Service mode restart from Token Ring specified by the operator.
259	Attempting a Service mode restart from FDDI specified by operator.
25c	Attempting a normal mode IPL from FDDI specified in IPL ROM device list.
260	Information is being displayed on the display console.
261	Information will be displayed on the tty terminal when the "1" key is pressed on the tty terminal keyboard.
262	A keyboard was not detected as being connected to the system's keyboard port. Note: Check for blown planar fuses or for a corrupted boot on disk drive
263	Attempting a Normal mode restart from adapter feature ROM specified in NVRAM device list.
271	Mouse port POST.
272	Tablet port POST.
278	Video ROM Scan POST.
279	FDDI adapter POST.
280	3COM Ethernet POST.
281	Keyboard POST executing.
282	Parallel port POST executing
283	Serial port POST executing
284	POWER Gt1 graphics adapter POST executing.
285	POWER Gt3 graphics adapter POST executing.
286	Token Ring adapter POST executing.
287	Ethernet adapter POST executing.
288	Adapter card slots being queried.
289	GTO POST.
290	IOCC POST error (irrecoverable).
291	Standard I/O POST running.
292	SCSI POST running.
293	IBM 7012 DBA disk POST running.

AIX IPL progress codes

294 IOCC bad TCW SIMM in slot location J being tested.
295 Graphics Display adapter POST, color or grayscale.
296 ROM scan POST.
297 System model number does not compare between OCS and ROS (irrecoverable). Attempting a software IPL.
298 Attempting a software IPL (warm boot).
299 IPL ROM passed control to the loaded program code.
301 Flash Utility ROM test failed or checkstop occured (irrecoverable)
302 Flash Utility ROM test failed or checkstop occured (irrecoverable)
302 Flash Utility ROM: User prompt, move the key to the service in order to perform an optional Flash Update. LED 302 will only appear if the key switch is in the SECURE position. This signals the user that a Flash Update may be initiated by moving the key switch to the SERVICE position. If the key is moved to the SERVICE position, LED 303 will be displayed. This signals the user to press the reset button and select optional Flash Update.
303 Flash Utility ROM: User prompt, press the reset button in order to perform an optional Flash Update. LED 302 will only appear if the key switch is in the SECURE position. This signals the user that a Flash Update may be initiated by moving the key switch to the SERVICE position. If the key is moved to the SERVICE position, LED 303 will be displayed. This signals the user to press the reset button and select optional Flash Update.
304 Flash Utility ROM IOCC POST error (irrecoverable)
305 Flash Utility ROM standard I/O POST running.
306 Flash Utility ROM is attempting IPL from Flash Update Boot Image.
307 Flash Utility ROM system model number does not compare between OCS and ROM (irrecoverable).
308 Flash Utility ROM: IOCC TCW memory is being tested.
309 Flash Utility ROM passed control to a Flash Update Boot Image.
311 Flash Utility ROM CRC comparison error (irrecoverable).
312 Flash Utility ROM RAM POST memory configuration error or no memory found (iirecoverable).
313 Flash Utility ROM RAM POST failure(irrecoverable).
314 Flash Utility ROM Power status register failed (irrecoverable).
315 Flash Utility ROM detected a low voltage condition.
318 Flash Utility ROM RAM POST is looking for good memory.
319 Flash Utility ROM RAM POST bit map is being generated.
322 CRC error on media Flash Image. No Flash Update performed.
323 Current Flash Image is being erased.
324 CRC error on new Flash Image after Update was performed. (Flash Image is corrupted).
325 Flash Image successful and complete.
324 Current Flash Image is being erased.
500 Querying Native I/O slot.
501 Querying card in Slot 1.
502 Querying card in Slot 2
503 Querying card in Slot 3
504 Querying card in Slot 4
505 Querying card in Slot 5
506 Querying card in Slot 6
507 Querying card in Slot 7
508 Querying card in Slot 8
510 Starting device configuration.
511 Device configuration completed.
512 Restoring device configuration files from media.

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513	Restoring basic operating system installation files from media.
516	Contacting server during network boot
517	Mounting client remote file system during network IPL.
518	Remote mount of the root and /usr filesystems failed during network boot.
520	Bus configuration running.
521	/etc/init invoked cfgmgr with invalid options; /etc/init has been corrupted or incorrectly modified (irrecoverable error).
522	The configuration manager has been invoked with conflicting options (irrecoverable error).
523	The configuration manager is unable to access the ODM database (irrecoverable error).
524	The configuration manager is unable to access the config rules object in the ODM database (irrecoverable error).
525	The configuration manager is unable to get data from a customized device object in the ODM database (irrecoverable error).
526	The configuration manager is unable to get data from a customized device driver objet in the ODM database (irrecoverable error).
527	The configuration manager was invoked with the phase 1 flag; running phase 1 flag; running phase 1 at this point is not permitted (irrecoverable error).
528	The configuration manager cannot find sequence rule, or no program was specified in the ODM database (irrecoverable error).
529	The configuration manager is unable to update ODM data (irrecoverable error).
530	The program "savebase" returned an error.
531	The configuration manager is unable to access PdAt object class (irrecoverable eroor)
532	There is not enough memory to continue (malloc failure); irrecoverable error.
533	The configuration manager could not find a configure method for a device.
534	The configuration manager is unable to aquire database lock. irrecoverable error.
536	The configuration manager encountered more than one sequence rule specified in the same phase. (irrecoverable error).
537	The configuration manager encountered an error when invoking the program in the sequence rule.
538	The configuration manager is going to invoke a configuration method.
539	The configuration method has terminated, and control has returned to the configuration manager.
551	IPL Varyon is running
552	IPL Varyon failed.
553	IPL phase 1 is complete.
554	Unable to define NFS swap device during network boot.
555	Unable to define NFS swap device during network boot.
556	Logical Volume Manager encountered error during IPL varyon.
557	The root filesystem will not mount.
558	There is not enough memory to continue the IPL.
559	Less than 2MB of good memory are available to load the AIX kernel.
570	Virtual SCSI devices being configured.
571	HIPPI common function device driver being configured.
572	HIPPI IPI-3 master transport driver being configured.
573	HIPPI IPI-3 slave transport driver being configured.

AIX IPL progress codes

574	HIPPI IPI-3 transport services user interface device driver being configured.
576	Generic async device driver being configured.
577	Generic SCSI device driver being configured.
578	Generic commo device driver being configured.
579	Device driver being configured for a generic device.
580	HIPPI TCPIP network interface driver being configured.
581	Configuring TCP/IP.
582	Configuring token ring data link control.
583	Configuring an Ethernet data link control.
584	Configuring an IEEE ethernet data link control.
585	Configuring an SDLC MPQP data link control.
586	Configuring a QLLC X.25 data link control.
587	Configuring NETBIOS.
588	Configuring a Bisync Read-Write (BSCRW).
589	SCSI target mode device being configured.
590	Diskless remote paging device being configured.
591	Configuring an LVM device driver.
592	Configuring an HFT device driver.
593	Configuring SNA device drivers.
594	Asynchronous I/O being defined or configured.
595	X.31 pseudo device being configured.
596	SNA DLC/LAPE pseudo device being configured.
597	OCS software being configured.
598	OCS hosts being configured during system reboot.
599	Configuring FDDI data link control.
5c0	Streams-based hardware drive being configured.
5c1	Streams-based X.25 protocol being configured.
5c2	Streams-based X.25 COMIO emulator driver being configured.
5c3	Streams-based X.25 TCP/IP interface driver being configured.
5c4	FCS adapter device driver being configured.
5c5	SCB network device driver for FCS is being configured.
5c6	AIX SNA channel being configured.
600	Starting network boot portion of /sbin/rs.boot
602	Configuring network parent devices.
603	/usr/lib/methods/defsys /usr/lib/methods/cggsys, or /usr/lib/methods/cggbus failed.
604	Configuring physical network boot device.
605	Configuring physical network boot device failed.
606	Running /usr/sbin/ifconfig on logical network boot device.
607	/usr/sbin/ifconfig failed.
608	Attempting to retrieve the client.info file with tftp. Note that a flashing 608 indicates multiple attempts to retrieve the client_info file are occuring.
609	The client.info file does not exist or it is zero length.
610	Attempting remote mount of NFS file system
611	Remote mount of the NFS filesystem failed.
612	Accessing remote files; unconfiguring network boot device.
614	Configuring local paging devices.
615	Configuring of a local paging device failed.
616	Converting from diskette to dataless configuration.
617	Diskless to dataless configuration failed.
618	Configuring remote (NFS) paging devices.
619	Configuration of a remote (NFS) paging device failed.
620	Updating special device files and ODM in permanent filesystem with

AIX IPL progress codes

	data from boot RAM filesystem.
622	Boot process configuring for operating system installation.
700	Progress indicator. A 1.1GB 8-bit SCSI disk drive being identified or configured.
701	Progress indicator. A 1.1GB 16-bit SCSI SE disk drive being identified or configured.
702	Progress indicator. A 1.1GB 16-bit SCSI differential disk drive being identified or configured.
703	Progress indicator. A 2.2GB 8-bit SCSI disk drive being identified or configured.
704	Progress indicator. A 2.2GB 16-bit SCSI SE disk drive being identified or configured.
705	The configuration method for the 2.2GB 16-bit differential SCSI disk drive is being run. If a irrecoverable error occurs, the system halts. identified or configured.
706	Progress indicator. A 4.5GB 16-bit SE SCSI disk drive is being identified or configured.
707	Progress indicator. A 4.5GB 16-bit differential SCSI drive is being identified or configured.
708	Progress indicator: A L2 cache is being identified or configured.
710	POWER GXT150M graphics adapterbeing ientifyied or configured.
711	Unknown adapter being identified or configured.
712	Graphics slot bus configuration is executing.
713	The IBM ARTIC960 device is being configured.
714	A video capture adapter is being configured.
715	The Ultimedia Services audio adapter is being configured. This LED displays briefly on the panel.
720	Unknown read/write optical drive type being configured.
721	Unknown disk or SCSI device being identified or configured.
722	Unknown disk being identified or configured.
723	Unknown CDROM being identified or configured.
724	Unknown tape drive being identified or configured.
725	Unknown display being identified or configured.
726	Unknown input device being identified or configured.
727	Unknown async device being identified or configured.
728	Parallel printer being identified or configured.
729	Unknown parallel device being identified or configured.
730	Unknown diskette drive being identified or configured.
731	PTY being identified or configured.
732	Unknown SCSI initiator type being configured.
733	7GB 8mm tape drive being configured.
77c	Progress indicator. A 1GB 16-bit SCSI disk drive being identified or configured.
811	Processor complex being identified or configured.
812	Memory being identified or configured.
813	Battery for time-of-day, NVRAM, and so on being identified or configured, or system I/O Control Logic being identified or configured.
814	NVRAM being identified or configured.
815	Floating-point processor test.
816	Operator panel logic being identified or configured.
817	Time-of-day logic being identified or configured.
819	Graphics input device adapter being identified or configured.
821	Standard keyboard adapter being identified or configured.
823	Standard mouse adapter being identified or configured.

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824	Standard tablet adapter being identified or configured.
825	Standard speaker adapter being identified or configured.
826	Serial Port 1 adapter being identified or configured.
827	Parallel port adapter being identified or configured.
828	Standard diskette adapter being identified or configured.
831	IBM3151 adapter being identified or configured, or Serial Port 2 being identified or configured.
834	64-port async controller being identified or configured.
835	16-port async concentrator being identified or configured.
836	128-port async controller being identified or configured.
837	remote async node, 16-EIA-232 being identified or configured.
838	Network Terminal Accelerator adapter being identified or configured.
839	7318 Serial Communication Server being configured.
841	8-port async adapter (EIA-232) being identified or configured.
842	8-port async adapter (EIA-422A) being identified or configured.
843	8-port async adapter (MIL-STD 188) being identified or configured.
844	7135 RAIDiant Array disk drive subsystem drawer being identified or
845	7135 RAIDiant Array disk drive subsystem drawer being identified or configured.
847	16-port serial adapter (EIA-232) being identified or configured.
848	16-port serial adapter (EIA-422) being identified or configured.
849	X.25 communications adapter being identified or configured.
850	Token-Ring network adapter being identified or configured.
851	T1/J1 Portmaster adapter being identified or configured.
852	Ethernet adapter being identified or configured.
854	3270 connection being identified or configured.
855	4-port multiprotocol adapter being identified or configured.
857	FSLA adapter being identified or configured.
858	5085/86/88 adapter being identified or configured.
859	FDDI adapter being identified or configured.
85c	Progress indicator: Token-Ring High-Performance LAN adapter is being identfied or configured.
861	Optical adapter being identified or configured.
862	Block Multiplexer channel adapter being identified or configured.
865	370 serial channel adapter being identified or configured.
866	SCSI adapter being identified or configured.
867	Async expansion adapter being identified or configured.
868	SCSI adapter being identified or configured.
869	SCSI adapter being identified or configured.
870	Serial disk drive being identified or configured.
871	Graphics subsystem adapter being identified or configured.
872	Grayscale graphics adapter being identified or configured.
874	Color graphics adapter being identified or configured.
876	8-bit color graphics processor being identified or configured.
877	POWER Gt3/Gt4 being identified or configured.
878	POWER Gt4 graphics processor card being configured.
880	POWER Gt1 graphics adapter being identified or configured.
887	Integrated ethernet adapter being identified or configured.
889	SCSI adapter being identified or configured.
890	Vendor SCSI adapter being identified or configured.
891	Vendor SCSI adapter being identified or configured.
892	Vendor display adapter being identified or configured.
893	Vendor LAN adapter being identified or configured.
894	Vendor async/communications adapter being identified or configured.
895	Vendor IEEE 488 LAN adapter being identified or configured.
896	Vendor VME bus madapter being identified or configured.

AIX IPL progress codes

```
   897      S/370 Channel Emulator Adapter being identified or configured.
   898      POWER Gt1x graphics adapter being identified or configured
   899      3490 attached tape drive being identified or configured
   89c      Progress indicator: A multimedia SCSI CD-ROM is being identfied
            or configured.
   901      Vendor SCSI device being identified or configured
   902      Vendor display device being identified or configured
   903      Vendor async device being identified or configured
   904      Vendor parallel device being identified or configured
   905      Vendor other device being identified or configured
   908      POWER GXT1000 graphics subsystem being identified or configured
   912      2GB SCSI-2 differential tape drive being identified or configured
   913      1GB SCSI-2 differential tape drive being identified or configured
   914      5GB 8mm differential tape drive being identified or configured
   915      4GB 4mm tape drive being identified or configured
   916      non-SCSI vendor tape adapter being identified or configured
   917      2.4gb 16-bit differential SCSI disk drive being identified
            or configured
   918      2.4gb16-bit single-ended SCSI disk drive being identified
            or configured
   920      Bridge box being identified or configured
   921      101 Keyboard being identified or configured
   922      102 Keyboard being identified or configured
   923      Kanji Keyboard being identified or configured
   924      2-button mouse identified or configur>
```

Transfer interrupted!

```
ied or configured
   926      Tablet Model 21 being identified or configured
   927      Tablet Model 22 being identified or configured
   928      Standard speaker being identified or configured
   929      Dials being identified or configured
   930      Lighted Program Function Keys(LPFK) being identified or
            configured
   931      IP router being identified or configured
   933      Async planar being identified or configured
   934      Async expansion drawer being identified or configured
   935      3.5" diskette drive being identified or configured
   936      5.25" diskette drive being identified or configured
   937      An HIPPI adapter is being configured.
   942      POWER GXT100 graphics adapter being identified or configured
   943      Progress indicator: 3480 and 3490 control units attached to a
            System/370 Channel Emulator/A adapter are identified or configured.
   944      100MB ATM adapter being configured
   945      1GB SCSI differential disk drive being identified or configured.
   946      Serial port 3 adapter is being identified or configured.
   947      Progress indicator. A 730MB SCSI disk drive is being configured.
   948      Portable disk drive being identified or configured
   949      Unknown direct bus-attach being identified or configured
   950      Missing SCSI device being identified or configured
   951      670 MB SCSI disk drive being identified or configured.
   952      355 MB SCSI disk drive being identified or configured.
   953      320 MB SCSI disk drive being identified or configured.
```

AIX IPL progress codes

954 400 MB SCSI disk drive being identified or configured.
955 857 MB SCSI disk drive being identified or configured.
956 670MB SCSI disk drive electronic card being identified or configured.
957 DBA disk drive being identified or configured.
958 160MB DBA disk drive being identified or configured.
959 160MB SCSI disk drive being identified or configured.
960 1.37GB SCSI disk drive being identified or configured.
968 1.0GB 3.5" SCSI disk drive being identified or configured.
970 Half-High, 9-track tape drive being identified or configured.
971 150MB quarter-inch tape drive being identified or configured.
972 8mm SCSI tape drive being identified or configured.
973 Other SCSI tape drive being identified or configured.
974 CDROM drive being identified or configured.
975 Progress indicator. An optical disk drive is being identified or configured.
977 M-Audio capture and playback adapter being identified or configured.
981 540MB SCSI-2 disk drive being identified or configured.
985 M-Video capture and playback adapter being identified or configured.
986 2.4GB SCSI disk drive being identified or configured.
987 Progress indicator. Enhanced SCSI CD-ROM drive is being identified or configured.
989 200MB SCSI disk drive being identified or configured.
990 2GB SCSI-2 single-ended disk drive being identified or configured.
991 525MB SCSI tape drive being identified or configured.
994 5GB 8mm tape drive being identified or configured.
995 1.2GB ¬-Inch tape drive being identified or configured.
996 1.0GB SCSI disk drive being identified or configured.
997 FDDI adapter being identified or configured.
998 2GB 4mm tape drive being identified or configured.
999 7137 or 3514 Disk Array Subsystem being identified of configured

Valid Power Failure Codes			
Digit 1	Digit 2	Digit 3	
blank	blank	blank	No
8			Fan P49B.
4			Fan P49C.
u			= Digit 1 Codes 8 and 4.
	8		Fan at P47.
	4		Fan P46A or P46 or both.
	2		Fan P49A.
	6		= Digit 2 Codes 4 and 2.
	c		= Digit 2 codes 8 and 2.
	u		= Digit 2 codes 8 and 4.
	Inverted F		= Digit 2 codes 8, 4 and 2.
		8	Excessive temperature in power supply.
		4	Power failure in power supply.
		2	Power failure outside power supply.
		1	Loss of primary power.

AIX IPL progress codes

AIX LED Indicators

Dump Progress Indicator

0c0	The dump completed successfully
0c2	A user-requested dump has started. You requested a dump using the SYSDUMPSTART command, a dump key sequence, or the Reset button.
0c3	The dump is inhibit
0c4	The dump did not complete. A partial dump was written to the dump device. There is not enough space on the dump device to contain the entire dump. To prevent this problem from occuring again, you must increase the size of your dump media.
0c5	The dump failed to start. An unecpected error occured while the system was attempting to write to the dump media.
0c6	A dump to the secondary dump device was requested. Make the secondary dump device ready, then press CTRL-ALT-NUMPAD2
0c7	Reserved.
0c8	The dump function is disabled. No primary dump device is configured.
0c9	A dump is in progress.

Diagnostics Load Progress Indicators

c00	AIX Install/Maintenance loaded successfully.
c01	Insert the first diagnostic diskette.
c02	Diskettes inserted out of sequence.
c03	The wrong diskette is in the drive.
c04	The loading stopped with an irrecoverable error.
c05	A diskette error occurred.
c08	RAM filesystem started incorrectly.
c07	Insert the next diagnostic diskette.
c09	The diskette drive is reading or writing a diskette.
c20	An unexpected halt occured, and the system is configured to enter the kernel debug program instead of entering a system dump.
c21	The 'ifconfig' command was unable to configure the network for the client network host.
c22	The 'tftp' command was unable to read client's ClientHostName.info file during a client network boot.
c24	Unable to read client's ClientHostName.info file during a client network boot.
c25	Client did not mount remote miniroot during network install.
c26	Client did not mount the /usr filesystem during the network boot.
c29	System was unable to configure the network device.
c31	Select the console display for the diagnostics. To select "No console display", set the key mode switch to normal then to Service. The diagnostic program will then load and run the diagnostics automatically.
c32	A direct-attached display (HFT) was selected.
c33	a TTY terminal attached to serial ports S1 or S2 was selected.
c34	A file was selected. The console messages store in a file
c40	Configuration files are been restored.

AIX IPL progress codes

c41	Could not determine the boot type or device.
c42	Extracting data files from diskette.
c43	Diagboot cannot be accessed.
c44	Initialyzing installation database with target disk information.
c45	Cannot configure the console.
c46	Normal installation processing.
c47	Could not create a physical volume identifier (PVID) on disk.
c48	Prompting you for input.
c49	Could not create or form the JFS log.
c50	Creating rootvg volume group on target disk
c51	No paging space were found.
c52	Changing from RAM environment to disk environment.
c53	Not enough space in the /tmp directory to do a preservation installation.
c54	Installing either BOS or additionnal packages.
c55	Could not remove the specified logical volume in a preservation installation.
c56	Running user-defined customization.
c57	Failure to restore BOS.
c58	Display message to turn the key.
c59	Could not copy either device special files, device ODM, or volume group information from RAM to disk.
c61	Failed to create the boot image.
c99	Diagnostics have completed. This code is only used when there is no console.

Debugger Progress Indicators

c20	Kernel debug program activated. An unexpected system halt has occured, and you have configured the system to enter the kernel debug program instead of performing a dump.

Built-In Self Test (Bist) Indicators

100	BIST completed successfully. Control was passed to IPL ROS.
101	BIST started following RESET.
102	BIST started following Power-on Reset.
103	BIST could not determine the system model number.
104	Equipment conflict. BIST could not find the CBA.
105	BIST could not read the OCS EPROM.
106	BIST detected a module error.
111	OCS stopped. BIST detected a module error.
112	A checkstop occured during BIST.
113	BIST checkstop count is greater than 1.
120	BIST starting a CRC check on the 8752 EPROM.
121	BIST detected a bad CRC in the first 32K of the OCS EPROM.
122	BIST started a CRC check on the first 32K of the OCS EPROM.
123	BIST detected a bad CRC on the OCS area of NVRAM.
124	BIST started a CRC check on the OCS area of NVRAM.
125	BIST detected a bad CRC on the time-of-day area of NVRAM.
126	BIST started a CRC check on the time-of-day area of the NVRAM.
127	BIST detected a bad CRC on the 8752 EPROM.

AIX IPL progress codes

Built-In Self Test (Bist) Indicators (suite)

130	BIST presence test started.
140	BIST failed; procedure error.
142	BIST failed; procedure error.
143	Invalid memory configuration.
144	BIST failed; procedure error.
151	BIST started AIPGM test code.
152	BIST started DCLST test code.
153	BIST started ACLST test code
154	BIST started AST test code.
160	Bad EPOW Signal/Power status signal
180	BIST logout failed.
185	A checkstop condition occured during the BIST
186	System logic-generated checkstop (Model 250 only)
187	Graphics-generated checkstop (Model 250)
195	BIST logout completed.
888	BIST did not start.

Power-On Self Test

200	IPL attempted with keylock in the SECURE position.
201	IPL ROM test failed or checkstop occured (irrecoverable).
202	IPL ROM test failed or checkstop occured (irrecoverable).
203	Unexpected data storage interrupt.
204	Unexpected instruction storage interrupt.
205	Unexpected external interrupt.
206	Unexpected alignment interrupt.
207	Unexpected program interrupt.
208	Unexpected floating point unavailable interrupt.
209	Unexpected SVC interrupt.
20c	L2 cache POST error. (The display shows a solid 20c for 5 seconds
210	Unexpected SVC interrupt.
211	IPL ROM CRC comparison error (irrecoverable).
212	RAM POST memory configuration error or no memory found (irrecoverable).
213	RAM POST failure (irrecoverable).
214	Power status register failed (irrecoverable).
215	A low voltage condition is present (irrecoverable).

Power-On Self Test (suite)

216	IPL ROM code being uncompressed into memory.
217	End of bootlist encountered.
218	RAM POST is looking for 1M bytes of good memory.
219	RAM POST bit map is being generated.
21c	L2 cache is not detected. (The display shows a solid 21c for 5 sec)
220	IPL control block is being initialized.
221	NVRAM CRC comparison error during AIX. IPL(Key Mode Switch in Normal mode). Reset NVRAM by reaccomplishing IPL in Service mode. For systems with an internal, direct-bus-attached(DBA)disk,IPL ROM attempted to perform an IPL from that disk before halting with this three-

AIX IPL progress codes

digit display value.

222 Attempting a Normal mode IPL from Standard I/O planar attached devices specified in NVRAM IPL Devices List.

223 Attempting a Normal mode IPL from SCSI attached devices specified in NVRAM IPL Devices List.

Note: May be caused by incorrect jumper setting for external SCSI devices or by incorrect SCSI terminator. REFER FFC B88

224 Attempting a Normal mode restart from 9333 subsystem device specified in NVRAM device list.

225 Attempting a Normal mode IPL from IBM 7012 DBA disk attached devices specified in NVRAM IPL Devices List.

226 Attempting a Normal mode restart from Ethernet specified in NVRAM device list.

227 Attempting a Normal mode restart from Token Ring specified in NVRAM device list.

228 Attempting a Normal mode IPL from NVRAM expansion code.

229 Attempting a Normal mode IPL from NVRAM IPL Devices List; cannot IPL from any of the listed devices, or there are no valid entry in the Devices List.

22c Attempting a normal mode IPL from FDDI specified in NVRAM IPL device list.

230 Attempting a Normal mode restart from adapter feature ROM specified in IPL ROM devices list.

231 Attempting a Normal mode restart from Ethernet specified in IPL ROM devices list.

232 Attempting a Normal mode IPL from Standard I/O planar attached devices specified in Rom Default Device List.

233 Attempting a Normal mode IPL from SCSI attached devices specified in IPL ROM Default Device List.

234 Attempting a Normal mode restart from 9333 subsystem device specified in IPL ROM device list.

235 Attempting a Normal mode IPL from IBM 7012 DBA disk attached devices specified in IPL ROM Default Device List.

236 Attempting a Normal mode restart from Ethernet specified in IPL ROM default devices list.

237 Attempting a Normal mode restart from Token Ring specified in IPL ROM default device list.

238 Attempting a Normal mode restart from Token Ring specified by the operator.

239 System failed to restart from the device chosen by the operator.

23c Attempting a normal mode IPL from FDDI specified in IPL ROM device list.

240 Attempting a Service mode restart from adapter feature ROM.

241 Attempting a Normal mode IPL from devices specified in the NVRAM IPL Devices List.

242 Attempting a Service mode IPL from Standard I/O planar attached devices specified in NVRAM IPL Devices List.

243 Attempting a Service mode IPL from SCSI attached devices specified in NVRAM IPL Devices List.

244 Attempting a Service mode restart from 9333 subsystem device specified in NVRAM device list.

245 Attempting a Service mode IPL from IBM 7012 DBA disk attached devices specified in NVRAM IPL Devices List.

246 Attempting a Service mode restart from Ethernet specified in NVRAM device list.

AIX IPL progress codes

247	Attempting a Service mode restart from Token Ring specified in NVRAM device list.
248	Attempting a Service mode IPL from NVRAM expansion code.
249	Attempting a Service mode IPL from NVRAM IPL Devices List; cannot IPL from any of the listed devices, or there are no valid entries in the Devices List.
24c	Attempting a service mode IPL from FDDI specified in NVRAM IPL device list.
250	Attempting a Service mode restart from adapter feature ROM specified in IPL ROM device list.
251	Attempting a Service mode restart from Ethernet specified in IPL ROM device list.
252	Attempting a Service mode IPL from standard I/O planar attached devicesspecified in ROM Default Device List.
253	Attempting a Service mode IPL from SCSI attached devices specified in IPL ROM Default Device List.
254	Attempting a Service mode restart from 9333 subsystem device specified in IPL ROM device list.
255	Attempting a Service mode IPL from IBM 7012 DBA disk attached devices specified in IPL ROM Default Devices List.
256	Attempting a Service mode restart from Ethernet specified in IPL ROM default device list.
257	Attempting a Service mode restart from Token Ring specified in IPL ROM default device list.
258	Attempting a Service mode restart from Token Ring specified by the operator.
259	Attempting a Service mode restart from FDDI specified by operator.
25c	Attempting a normal mode IPL from FDDI specified in IPL ROM device list.
260	Information is being displayed on the display console.
261	Information will be displayed on the tty terminal when the "1" key is pressed on the tty terminal keyboard.
262	A keyboard was not detected as being connected to the system's keyboard port. Note: Check for blown planar fuses or for a corrupted boot on disk drive
263	Attempting a Normal mode restart from adapter feature ROM specified in NVRAM device list.
271	Mouse port POST.
272	Tablet port POST.
278	Video ROM Scan POST.
279	FDDI adapter POST.
280	3COM Ethernet POST.
281	Keyboard POST executing.
282	Parallel port POST executing
283	Serial port POST executing
284	POWER Gt1 graphics adapter POST executing.
285	POWER Gt3 graphics adapter POST executing.
286	Token Ring adapter POST executing.
287	Ethernet adapter POST executing.
288	Adapter card slots being queried.
289	GTO POST.
290	IOCC POST error (irrecoverable).
291	Standard I/O POST running.
292	SCSI POST running.
293	IBM 7012 DBA disk POST running.

AIX IPL progress codes

294 IOCC bad TCW SIMM in slot location J being tested.
295 Graphics Display adapter POST, color or grayscale.
296 ROM scan POST.
297 System model number does not compare between OCS and ROS (irrecoverable). Attempting a software IPL.
298 Attempting a software IPL (warm boot).
299 IPL ROM passed control to the loaded program code.
301 Flash Utility ROM test failed or checkstop occured (irrecoverable)
302 Flash Utility ROM test failed or checkstop occured (irrecoverable)
302 Flash Utility ROM: User prompt, move the key to the service in order to perform an optional Flash Update. LED 302 will only appear if the key switch is in the SECURE position. This signals the user that a Flash Update may be initiated by moving the key switch to the SERVICE position. If the key is moved to the SERVICE position, LED 303 will be displayed. This signals the user to press the reset button and select optional Flash Update.
303 Flash Utility ROM: User prompt, press the reset button in order to perform an optional Flash Update. LED 302 will only appear if the key switch is in the SECURE position. This signals the user that a Flash Update may be initiated by moving the key switch to the SERVICE position. If the key is moved to the SERVICE position, LED 303 will be displayed. This signals the user to press the reset button and select optional Flash Update.
304 Flash Utility ROM IOCC POST error (irrecoverable)
305 Flash Utility ROM standard I/O POST running.
306 Flash Utility ROM is attempting IPL from Flash Update Boot Image.
307 Flash Utility ROM system model number does not compare between OCS and ROM (irrecoverable).
308 Flash Utility ROM: IOCC TCW memory is being tested.
309 Flash Utility ROM passed control to a Flash Update Boot Image.
311 Flash Utility ROM CRC comparison error (irrecoverable).
312 Flash Utility ROM RAM POST memory configuration error or no memory found (iirecoverable).
313 Flash Utility ROM RAM POST failure(irrecoverable).
314 Flash Utility ROM Power status register failed (irrecoverable).
315 Flash Utility ROM detected a low voltage condition.
318 Flash Utility ROM RAM POST is looking for good memory.
319 Flash Utility ROM RAM POST bit map is being generated.
322 CRC error on media Flash Image. No Flash Update performed.
323 Current Flash Image is being erased.
324 CRC error on new Flash Image after Update was performed. (Flash Image is corrupted).
325 Flash Image successful and complete.
324 Current Flash Image is being erased.
500 Querying Native I/O slot.
501 Querying card in Slot 1.
502 Querying card in Slot 2
503 Querying card in Slot 3
504 Querying card in Slot 4
505 Querying card in Slot 5
506 Querying card in Slot 6
507 Querying card in Slot 7
508 Querying card in Slot 8
510 Starting device configuration.
511 Device configuration completed.
512 Restoring device configuration files from media.

AIX IPL progress codes

513	Restoring basic operating system installation files from media.
516	Contacting server during network boot
517	Mounting client remote file system during network IPL.
518	Remote mount of the root and /usr filesystems failed during network boot.
520	Bus configuration running.
521	/etc/init invoked cfgmgr with invalid options; /etc/init has been corrupted or incorrectly modified (irrecoverable error).
522	The configuration manager has been invoked with conflicting options (irrecoverable error).
523	The configuration manager is unable to access the ODM database (irrecoverable error).
524	The configuration manager is unable to access the config rules object in the ODM database (irrecoverable error).
525	The configuration manager is unable to get data from a customized device object in the ODM database (irrecoverable error).
526	The configuration manager is unable to get data from a customized device driver objet in the ODM database (irrecoverable error).
527	The configuration manager was invoked with the phase 1 flag; running phase 1 flag; running phase 1 at this point is not permitted (irrecoverable error).
528	The configuration manager cannot find sequence rule, or no program was specified in the ODM database (irrecoverable error).
529	The configuration manager is unable to update ODM data (irrecoverable error).
530	The program "savebase" returned an error.
531	The configuration manager is unable to access PdAt object class (irrecoverable eroor)
532	There is not enough memory to continue (malloc failure); irrecoverable error.
533	The configuration manager could not find a configure method for a device.
534	The configuration manager is unable to aquire database lock. irrecoverable error.
536	The configuration manager encountered more than one sequence rule specified in the same phase. (irrecoverable error).
537	The configuration manager encountered an error when invoking the program in the sequence rule.
538	The configuration manager is going to invoke a configuration method.
539	The configuration method has terminated, and control has returned to the configuration manager.
551	IPL Varyon is running
552	IPL Varyon failed.
553	IPL phase 1 is complete.
554	Unable to define NFS swap device during network boot.
555	Unable to define NFS swap device during network boot.
556	Logical Volume Manager encountered error during IPL varyon.
557	The root filesystem will not mount.
558	There is not enough memory to continue the IPL.
559	Less than 2MB of good memory are available to load the AIX kernel.
570	Virtual SCSI devices being configured.
571	HIPPI common function device driver being configured.
572	HIPPI IPI-3 master transport driver being configured.
573	HIPPI IPI-3 slave transport driver being configured.

AIX IPL progress codes

574	HIPPI IPI-3 transport services user interface device driver being configured.
576	Generic async device driver being configured.
577	Generic SCSI device driver being configured.
578	Generic commo device driver being configured.
579	Device driver being configured for a generic device.
580	HIPPI TCPIP network interface driver being configured.
581	Configuring TCP/IP.
582	Configuring token ring data link control.
583	Configuring an Ethernet data link control.
584	Configuring an IEEE ethernet data link control.
585	Configuring an SDLC MPQP data link control.
586	Configuring a QLLC X.25 data link control.
587	Configuring NETBIOS.
588	Configuring a Bisync Read-Write (BSCRW).
589	SCSI target mode device being configured.
590	Diskless remote paging device being configured.
591	Configuring an LVM device driver.
592	Configuring an HFT device driver.
593	Configuring SNA device drivers.
594	Asynchronous I/O being defined or configured.
595	X.31 pseudo device being configured.
596	SNA DLC/LAPE pseudo device being configured.
597	OCS software being configured.
598	OCS hosts being configured during system reboot.
599	Configuring FDDI data link control.
5c0	Streams-based hardware drive being configured.
5c1	Streams-based X.25 protocol being configured.
5c2	Streams-based X.25 COMIO emulator driver being configured.
5c3	Streams-based X.25 TCP/IP interface driver being configured.
5c4	FCS adapter device driver being configured.
5c5	SCB network device driver for FCS is being configured.
5c6	AIX SNA channel being configured.
600	Starting network boot portion of /sbin/rs.boot
602	Configuring network parent devices.
603	/usr/lib/methods/defsys /usr/lib/methods/cggsys, or /usr/lib/methods/cggbus failed.
604	Configuring physical network boot device.
605	Configuring physical network boot device failed.
606	Running /usr/sbin/ifconfig on logical network boot device.
607	/usr/sbin/ifconfig failed.
608	Attempting to retrieve the client.info file with tftp. Note that a flashing 608 indicates multiple attempts to retrieve the client_info file are occuring.
609	The client.info file does not exist or it is zero length.
610	Attempting remote mount of NFS file system
611	Remote mount of the NFS filesystem failed.
612	Accessing remote files; unconfiguring network boot device.
614	Configuring local paging devices.
615	Configuring of a local paging device failed.
616	Converting from diskette to dataless configuration.
617	Diskless to dataless configuration failed.
618	Configuring remote (NFS) paging devices.
619	Configuration of a remote (NFS) paging device failed.
620	Updating special device files and ODM in permanent filesystem with

AIX IPL progress codes

	data from boot RAM filesystem.
622	Boot process configuring for operating system installation.
700	Progress indicator. A 1.1GB 8-bit SCSI disk drive being identified or configured.
701	Progress indicator. A 1.1GB 16-bit SCSI SE disk drive being identified or configured.
702	Progress indicator. A 1.1GB 16-bit SCSI differential disk drive being identified or configured.
703	Progress indicator. A 2.2GB 8-bit SCSI disk drive being identified or configured.
704	Progress indicator. A 2.2GB 16-bit SCSI SE disk drive being identified or configured.
705	The configuration method for the 2.2GB 16-bit differential SCSI disk drive is being run. If a irrecoverable error occurs, the system halts. identified or configured.
706	Progress indicator. A 4.5GB 16-bit SE SCSI disk drive is being identified or configured.
707	Progress indicator. A 4.5GB 16-bit differential SCSI drive is being identified or configured.
708	Progress indicator: A L2 cache is being identified or configured.
710	POWER GXT150M graphics adapterbeing ientifyied or configured.
711	Unknown adapter being identified or configured.
712	Graphics slot bus configuration is executing.
713	The IBM ARTIC960 device is being configured.
714	A video capture adapter is being configured.
715	The Ultimedia Services audio adapter is being configured. This LED displays briefly on the panel.
720	Unknown read/write optical drive type being configured.
721	Unknown disk or SCSI device being identified or configured.
722	Unknown disk being identified or configured.
723	Unknown CDROM being identified or configured.
724	Unknown tape drive being identified or configured.
725	Unknown display being identified or configured.
726	Unknown input device being identified or configured.
727	Unknown async device being identified or configured.
728	Parallel printer being identified or configured.
729	Unknown parallel device being identified or configured.
730	Unknown diskette drive being identified or configured.
731	PTY being identified or configured.
732	Unknown SCSI initiator type being configured.
733	7GB 8mm tape drive being configured.
77c	Progress indicator. A 1GB 16-bit SCSI disk drive being identified or configured.
811	Processor complex being identified or configured.
812	Memory being identified or configured.
813	Battery for time-of-day, NVRAM, and so on being identified or configured, or system I/O Control Logic being identified or configured.
814	NVRAM being identified or configured.
815	Floating-point processor test.
816	Operator panel logic being identified or configured.
817	Time-of-day logic being identified or configured.
819	Graphics input device adapter being identified or configured.
821	Standard keyboard adapter being identified or configured.
823	Standard mouse adapter being identified or configured.

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824	Standard tablet adapter being identified or configured.
825	Standard speaker adapter being identified or configured.
826	Serial Port 1 adapter being identified or configured.
827	Parallel port adapter being identified or configured.
828	Standard diskette adapter being identified or configured.
831	IBM3151 adapter being identified or configured, or Serial Port 2 being identified or configured.
834	64-port async controller being identified or configured.
835	16-port async concentrator being identified or configured.
836	128-port async controller being identified or configured.
837	remote async node, 16-EIA-232 being identified or configured.
838	Network Terminal Accelerator adapter being identified or configured.
839	7318 Serial Communication Server being configured.
841	8-port async adapter (EIA-232) being identified or configured.
842	8-port async adapter (EIA-422A) being identified or configured.
843	8-port async adapter (MIL-STD 188) being identified or configured.
844	7135 RAIDiant Array disk drive subsystem drawer being identified or
845	7135 RAIDiant Array disk drive subsystem drawer being identified or configured.
847	16-port serial adapter (EIA-232) being identified or configured.
848	16-port serial adapter (EIA-422) being identified or configured.
849	X.25 communications adapter being identified or configured.
850	Token-Ring network adapter being identified or configured.
851	T1/J1 Portmaster adapter being identified or configured.
852	Ethernet adapter being identified or configured.
854	3270 connection being identified or configured.
855	4-port multiprotocol adapter being identified or configured.
857	FSLA adapter being identified or configured.
858	5085/86/88 adapter being identified or configured.
859	FDDI adapter being identified or configured.
85c	Progress indicator: Token-Ring High-Performance LAN adapter is being identfied or configured.
861	Optical adapter being identified or configured.
862	Block Multiplexer channel adapter being identified or configured.
865	370 serial channel adapter being identified or configured.
866	SCSI adapter being identified or configured.
867	Async expansion adapter being identified or configured.
868	SCSI adapter being identified or configured.
869	SCSI adapter being identified or configured.
870	Serial disk drive being identified or configured.
871	Graphics subsystem adapter being identified or configured.
872	Grayscale graphics adapter being identified or configured.
874	Color graphics adapter being identified or configured.
876	8-bit color graphics processor being identified or configured.
877	POWER Gt3/Gt4 being identified or configured.
878	POWER Gt4 graphics processor card being configured.
880	POWER Gt1 graphics adapter being identified or configured.
887	Integrated ethernet adapter being identified or configured.
889	SCSI adapter being identified or configured.
890	Vendor SCSI adapter being identified or configured.
891	Vendor SCSI adapter being identified or configured.
892	Vendor display adapter being identified or configured.
893	Vendor LAN adapter being identified or configured.
894	Vendor async/communications adapter being identified or configured.
895	Vendor IEEE 488 LAN adapter being identified or configured.
896	Vendor VME bus madapter being identified or configured.

AIX IPL progress codes

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   897      S/370 Channel Emulator Adapter being identified or configured.
   898      POWER Gt1x graphics adapter being identified or configured
   899      3490 attached tape drive being identified or configured
   89c      Progress indicator: A multimedia SCSI CD-ROM is being identfied
            or configured.
   901      Vendor SCSI device being identified or configured
   902      Vendor display device being identified or configured
   903      Vendor async device being identified or configured
   904      Vendor parallel device being identified or configured
   905      Vendor other device being identified or configured
   908      POWER GXT1000 graphics subsystem being identified or configured
   912      2GB SCSI-2 differential tape drive being identified or configured
   913      1GB SCSI-2 differential tape drive being identified or configured
   914      5GB 8mm differential tape drive being identified or configured
   915      4GB 4mm tape drive being identified or configured
   916      non-SCSI vendor tape adapter being identified or configured
   917      2.4gb 16-bit differential SCSI disk drive being identified
            or configured
   918      2.4gb16-bit single-ended SCSI disk drive being identified
            or configured
   920      Bridge box being identified or configured
   921      101 Keyboard being identified or configured
   922      102 Keyboard being identified or configured
   923      Kanji Keyboard being identified or configured
   924      2-button mouse identified or configur>
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Transfer interrupted!

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ied or configured
   926      Tablet Model 21 being identified or configured
   927      Tablet Model 22 being identified or configured
   928      Standard speaker being identified or configured
   929      Dials being identified or configured
   930      Lighted Program Function Keys(LPFK) being identified or
            configured
   931      IP router being identified or configured
   933      Async planar being identified or configured
   934      Async expansion drawer being identified or configured
   935      3.5" diskette drive being identified or configured
   936      5.25" diskette drive being identified or configured
   937      An HIPPI adapter is being configured.
   942      POWER GXT100 graphics adapter being identified or configured
   943      Progress indicator: 3480 and 3490 control units attached to a
            System/370 Channel Emulator/A adapter are identified or configured.
   944      100MB ATM adapter being configured
   945      1GB SCSI differential disk drive being identified or configured.
   946      Serial port 3 adapter is being identified or configured.
   947      Progress indicator. A 730MB SCSI disk drive is being configured.
   948      Portable disk drive being identified or configured
   949      Unknown direct bus-attach being identified or configured
   950      Missing SCSI device being identified or configured
   951      670 MB SCSI disk drive being identified or configured.
   952      355 MB SCSI disk drive being identified or configured.
   953      320 MB SCSI disk drive being identified or configured.
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AIX IPL progress codes

954 400 MB SCSI disk drive being identified or configured.
955 857 MB SCSI disk drive being identified or configured.
956 670MB SCSI disk drive electronic card being identified or configured.
957 DBA disk drive being identified or configured.
958 160MB DBA disk drive being identified or configured.
959 160MB SCSI disk drive being identified or configured.
960 1.37GB SCSI disk drive being identified or configured.
968 1.0GB 3.5" SCSI disk drive being identified or configured.
970 Half-High, 9-track tape drive being identified or configured.
971 150MB quarter-inch tape drive being identified or configured.
972 8mm SCSI tape drive being identified or configured.
973 Other SCSI tape drive being identified or configured.
974 CDROM drive being identified or configured.
975 Progress indicator. An optical disk drive is being identified or configured.
977 M-Audio capture and playback adapter being identified or configured.
981 540MB SCSI-2 disk drive being identified or configured.
985 M-Video capture and playback adapter being identified or configured.
986 2.4GB SCSI disk drive being identified or configured.
987 Progress indicator. Enhanced SCSI CD-ROM drive is being identified or configured.
989 200MB SCSI disk drive being identified or configured.
990 2GB SCSI-2 single-ended disk drive being identified or configured.
991 525MB SCSI tape drive being identified or configured.
994 5GB 8mm tape drive being identified or configured.
995 1.2GB ¬-Inch tape drive being identified or configured.
996 1.0GB SCSI disk drive being identified or configured.
997 FDDI adapter being identified or configured.
998 2GB 4mm tape drive being identified or configured.
999 7137 or 3514 Disk Array Subsystem being identified of configured

Valid Power Failure Codes			
Digit 1	Digit 2	Digit 3	
blank	blank	blank	No
8			Fan P49B.
4			Fan P49C.
u			= Digit 1 Codes 8 and 4.
	8		Fan at P47.
	4		Fan P46A or P46 or both.
	2		Fan P49A.
	6		= Digit 2 Codes 4 and 2.
	c		= Digit 2 codes 8 and 2.
	u		= Digit 2 codes 8 and 4.
	Inverted F		= Digit 2 codes 8, 4 and 2.
		8	Excessive temperature in power supply.
		4	Power failure in power supply.
		2	Power failure outside power supply.
		1	Loss of primary power.

AIX IPL progress codes