GRAPE6-BLX64

SPECIFICATION   The most suitable for clustering

- Speed: 131.3G flops (4×Grape6 VLSI Chips 6Pipeline per chip).

- Memory size: 262,144 particle. (18Mbit Burst-SRAM×8)

- OS(prepared by users) :

    1. Linux 2.6.9 (RedHat ELV4)

    2. Linux 2.6.9 (Fedora Core 3, x86_64)

    *If you succeed in using other version , please inform us. Such information will help other users.

- Attached Application Software: C language, Fortran language interface library. (CD-ROM)

- Host computer: Intel® Xeon CPU and Intel® E7525 chip set are suitable.

- Dimension : 33mm(w) x 313mm(d) x108mm (h),   2 PCI slot occupied

- Interface : Standard **64bit/100MHz or 133MHz full PCI-X**   A) You should set BIOS to make PCI

    Cooling fan : 1.8m^3/min   65cfm   (Please consult with the computer manufacturer.)

    Remarks; Micro GRAPE(MG6Af) have a big cooling fan on the boards.
    But BL4/BLX64 are not attached.on the board. Thus it needs a extra cool down fan
    near the board in the box.

    *It is prepared by yourself Please make sure the surface temperature of heat sink **lower than 50** .
    Power consumption : DC12V 5A, ATX power supply

* Documentation:
    User's Mamual: manual_blx64
    Library: g6auser
    Install Guide   install

* The difference between Micro GRAPE and GRAPE6-BL4, GRAPE6-BLX64:

	Interface	Linux	Peak Speed	actual speed	Particale	memory
MG6Af	PCI	32bit Linux	125G	90G		126K
BL4	PCI	32bit	131.6G	100G flops		256K
BLX64	PCI-X	64bit	131.6G	125G flops		256K

BLX64 Library is included JP-buffering routine. However BL4 and MG6Af
are not included in the library.
Refer to above User's Manual for BLX64.

Grape-BLX64 is a upgrade model of MicroGrape. It is special for built-in cluster. Grape-BL4 was developed for joint research of the FIRST project (the Origin of FIRST Generation Objects by HMCS-E) with Center for Computational Sciences University of Tsukuba.
It is 30 percent faster than Micro GRAPE by using 64bit PCI-X interface.
First　Project　first project　　first cluster
Tsukuba University Web

Grape was developed by receiving technology of University of Tokyo