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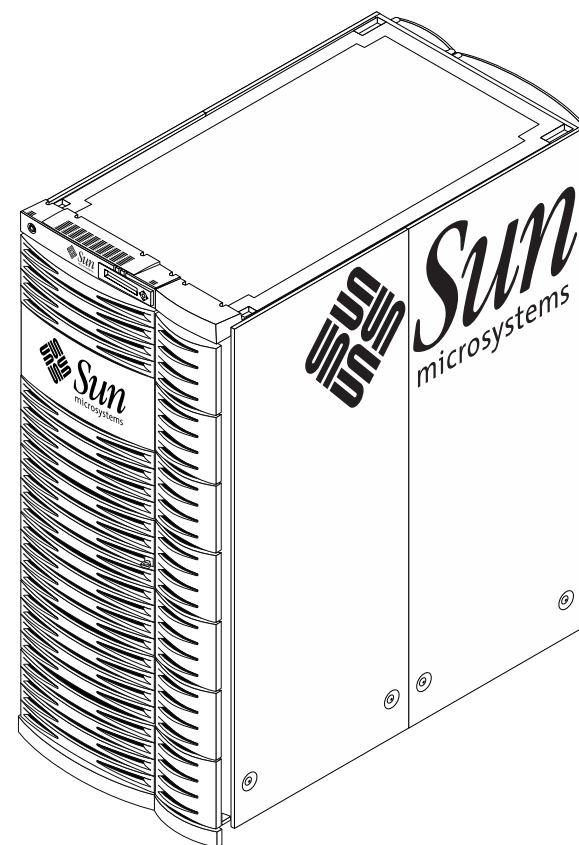
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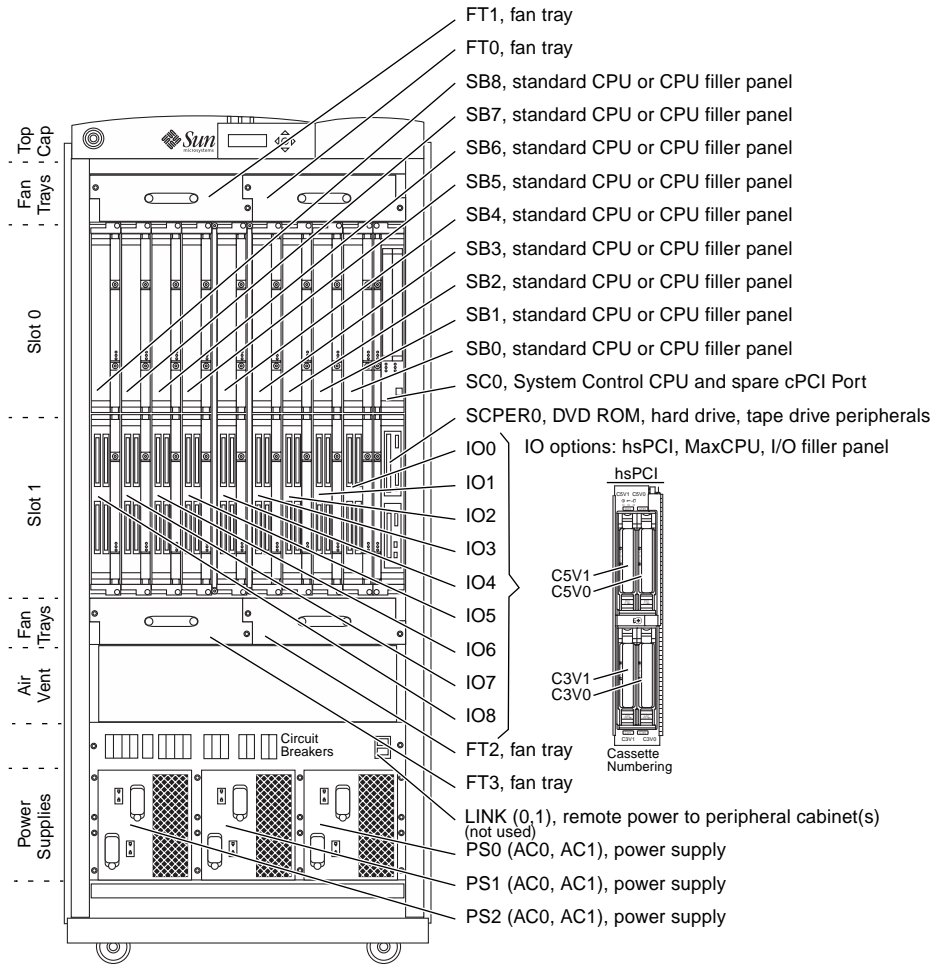# Sun Fire™ 12K System Introduction
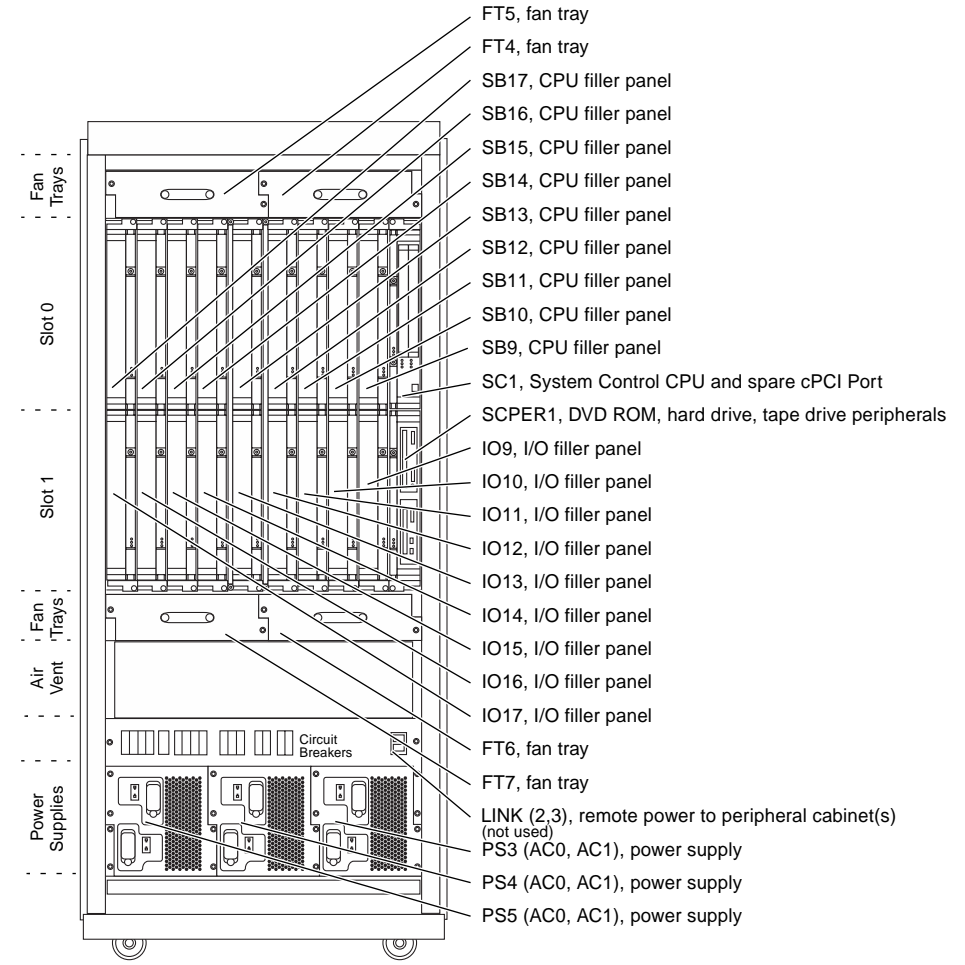
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The Sun Fire™ 12K system has an industry-leading dynamic system domain capability as well as reliability, availability, and serviceability (RAS) capabilities. The system uses the active-centerplane technology supporting nine CPU boards and nine I/O boards (hsPCI assemblies and MaxCPU boards). This system supports the UltraSPARC™ III Cu CPUs with the Sun Fireplane™ interconnect architecture, running the Solaris™ 8 or 9 operating environment. All Sun Fire 12K components are hot-swappable, including the interchangeable uniboards (CPU/Memory boards) which are common with the other Sun Fire™ 6800/4810/4800/3800/15K servers.

The Sun Fire 12K system is a fully redundant system with two System Control boards (front and rear), two rows of three 4kW dual AC–DC power supplies, and eight fan trays each containing twelve fans. The nine slots on the rear of the system are inactive and contain CPU and I/O filler panels.

All hardware, software, and service manuals for the Sun Fire™ 15K system apply to the Sun Fire 12K system.

FT1, fan tray
FT0, fan tray
SB8, standard CPU or CPU filler panel
SB7, standard CPU or CPU filler panel
SB6, standard CPU or CPU filler panel
SB5, standard CPU or CPU filler panel
SB4, standard CPU or CPU filler panel
SB3, standard CPU or CPU filler panel
SB2, standard CPU or CPU filler panel
SB1, standard CPU or CPU filler panel
SB0, standard CPU or CPU filler panel
SC0, System Control CPU and spare cPCI Port
SCPER0, DVD ROM, hard drive, tape drive peripherals
IO0   IO options: hsPCI, MaxCPU, I/O filler panel
IO1
IO2
IO3
IO4   C5V1
           C5V0
IO5
IO6
IO7   C3V1
           C3V0
IO8
FT2, fan tray
FT3, fan tray
LINK (0,1), remote power to peripheral cabinet(s) (not used)
PS0 (AC0, AC1), power supply
PS1 (AC0, AC1), power supply
PS2 (AC0, AC1), power supply

Top Cap
Fan Trays
Slot 0
Slot 1
Fan Trays
Air Vent
Power Supplies
Circuit Breakers
hsPCI
Cassette Numbering

Sun Fire 12K System Component Numbering—Front View

FT5, fan tray
FT4, fan tray
SB17, CPU filler panel
SB16, CPU filler panel
SB15, CPU filler panel
SB14, CPU filler panel
SB13, CPU filler panel
SB12, CPU filler panel
SB11, CPU filler panel
SB10, CPU filler panel
SB9, CPU filler panel
SC1, System Control CPU and spare cPCI Port
SCPER1, DVD ROM, hard drive, tape drive peripherals
IO9, I/O filler panel
IO10, I/O filler panel
IO11, I/O filler panel
IO12, I/O filler panel
IO13, I/O filler panel
IO14, I/O filler panel
IO15, I/O filler panel
IO16, I/O filler panel
IO17, I/O filler panel
FT6, fan tray
FT7, fan tray
LINK (2,3), remote power to peripheral cabinet(s) (not used)
PS3 (AC0, AC1), power supply
PS4 (AC0, AC1), power supply
PS5 (AC0, AC1), power supply

Fan Trays
Slot 0
Slot 1
Fan Trays
Air Vent
Power Supplies
Circuit Breakers

Sun Fire 12K System Component Numbering—Rear View