



Sun™ 450-MHz CPU Installation Note

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Part No. 806-1055-12
June 2000, [Revision A](#)

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Regulatory Compliance Statements

Your Sun product is marked to indicate its compliance class:

- Federal Communications Commission (FCC) — USA
- Industry Canada Equipment Standard for Digital Equipment (ICES-003) — Canada
- Voluntary Control Council for Interference (VCCI) — Japan
- Bureau of Standards Metrology and Inspection (BSMI) — Taiwan

Please read the appropriate section that corresponds to the marking on your Sun product before attempting to install the product.

FCC Class A Notice

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Shielded Cables: Connections between the workstation and peripherals must be made using shielded cables to comply with FCC radio frequency emission limits. Networking connections can be made using unshielded twisted-pair (UTP) cables.

Modifications: Any modifications made to this device that are not approved by Sun Microsystems, Inc. may void the authority granted to the user by the FCC to operate this equipment.

FCC Class B Notice

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Shielded Cables: Connections between the workstation and peripherals must be made using shielded cables in order to maintain compliance with FCC radio frequency emission limits. Networking connections can be made using unshielded twisted pair (UTP) cables.

Modifications: Any modifications made to this device that are not approved by Sun Microsystems, Inc. may void the authority granted to the user by the FCC to operate this equipment.

ICES-003 Class A Notice - Avis NMB-003, Classe A

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

ICES-003 Class B Notice - Avis NMB-003, Classe B

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

VCCI 基準について

クラス A VCCI 基準について

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Sun 450-MHz CPU Installation Note

This document provides information you need to install a 450-MHz UltraSPARC™ II CPU module in the following platforms:

- Sun™ Ultra™ 60 workstation
- Sun Enterprise™ 220R server

How to Install a 450-MHz CPU Module

Before installing a 450-MHz CPU module in your system, you must determine the clock speed of the system as it is currently configured.

Query your system by typing:

```
% prtconf -vp | grep banner-name  
  banner-name: 'Sun Ultra xx UPA/SBus (1x UltraSPARC 450 MHz)'
```

The system responds with the quantity (for example, 1x) and speed (450 MHz) of the UltraSPARC modules installed.

Adding a 450-MHz CPU Module to a System Configured for 450 MHz

If you are adding a 450-MHz CPU module to a system that is already configured for 450-MHz operation, see your service manual for instructions.

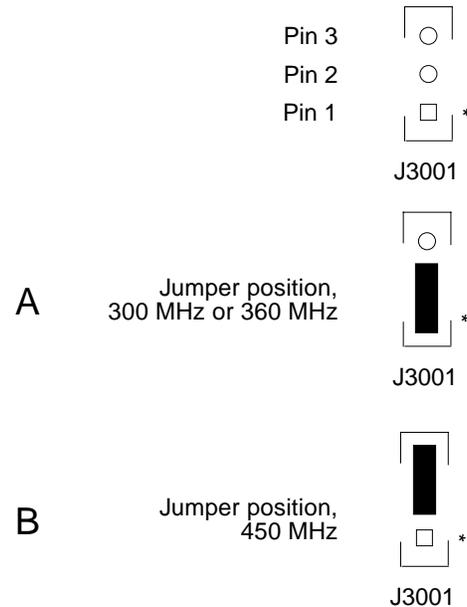
Installing a 450-MHz CPU Module in a System Configured for a Different Clock Speed

Note – The following section supplements the information contained in your system's service manual.

If you are installing a 450-MHz CPU module in a system that is configured for a different clock speed, you must reset the clock-speed jumper on the main logic board. Use the following table to determine the correct setting for the clock-speed jumper (J3001). See the illustrations that follow to locate and set the clock-speed jumper.

Jumper	Pins 1 + 2 Select	Pins 2 + 3 Select
J3001	300-MHz or 360-MHz UltraSPARC II module	450-MHz UltraSPARC II module

The following figure shows how the clock-speed jumper should be set.



The following figure shows the location of J3001 on the main logic board.

