



AlphaServer ES40 500 MHz CPU Read Me First

Part Number: EK-KN610-CL. A01

Important! Read this information before installing an additional 500-MHz CPU into an *AlphaServer ES40* system!

The add-on CPU in your order has the part number 54-30158-A3 or 54-30158-A5. This is an EV6 pass 2.5 CPU and may be incompatible with the CPUs in your system. If the CPUs in your system are incompatible with the add-on, Field Service will upgrade them at no cost to you.

Requirements for a Legal Configuration

Two rules apply for installing the add-on CPU in your order:

1. The add-on CPU, 54-30158-A3 or -A5, cannot be installed in a system with either 54-30158-03 or -05 CPUs.
 - 54-30158-03 or -05 is an EV6 **pass 2.3** CPU.
 - 54-30158-A3 or -A5 is an EV6 **pass 2.5** CPU.
2. 54-30158-A3 or -A5 requires SRM firmware V5.5-107 or higher.

Use the **show config | more** command to determine what CPU variant(s) and firmware version are installed. Following are examples of legal and illegal configurations.

Example 1 Legal Configuration

In Example 1, 54-30158-A3 or -A5 (EV6 pass 2.5) CPUs are installed and minimum SRM firmware V5.5-107 is installed.

Action: If your system has this configuration, install the add-on CPU.

```
P00>>>show config | more
                               Compaq Computer Corporation
                               Compaq AlphaServer ES40

Firmware
SRM Console:      V5.5-107
ARC Console:      v5.70
PALcode:          OpenVMS PALcode V1.61-4, Tru64 UNIX PALcode V1.54-4
Serial Rom:       V2.2-F
RMC Rom:          V1.0
RMC Flash Rom:    V2.1

Processors
CPU 0             Alpha EV6 pass 2.5 500 MHz 4MB Bcache
CPU 1             Alpha EV6 pass 2.5 500 MHz 4MB Bcache
.
.
.
```

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Example 2 Illegal Configuration (Wrong Firmware Version)

In Example 2, installed CPUs are either 54-30158-A3 or -A5 (EV6 pass 2.5), but SRM firmware is not at the required level.

Required action: Update SRM firmware to V5.5-107. Obtain the firmware executable from the interim firmware site and read the readme.txt before doing the update.

<http://ftp.digital.com/pub/Digital/Alpha/firmware/interim/es40/>

```
P00>>>show config | more
                        Compaq Computer Corporation
                        Compaq AlphaServer ES40

Firmware
SRM Console:          V5.5-68
:
:
Processors
CPU 0                Alpha 21264-? 500 MHz  4MB Bcache
CPU 1                Alpha 21264-? 500 MHz  4MB Bcache
.
.
.
```

Note: Earlier firmware versions do not recognize EV6 pass 2.5 CPUs.

Example 3 Illegal Configuration (Mixed CPU Variants)

In Example 3, the SRM firmware is at the required level, but EV6 pass 2.3 CPUs are mixed with EV6 pass 2.5 CPUs.

Required action: Call your local Field Service office or 1-800-OK-COMPAQ (1-800-652-6672) and inquire about FCO# 00-ES40 F.001 for the ES40 system. Under this Field Change Order, Field Service will upgrade all your EV6 pass 2.3 CPUs to pass 2.5 at no cost to you.

```
P00>>>show config | more
                        Compaq Computer Corporation
                        Compaq AlphaServer ES40

Firmware
SRM Console:          V5.5-107
ARC Console:          v5.70
PALcode:              OpenVMS PALcode V1.61-4, Tru64 UNIX PALcode V1.54-4
Serial Rom:           V2.2-F
RMC Rom:              V1.0
RMC Flash Rom:       V2.1

Processors
CPU 0                Alpha EV6 pass 2.5 500 MHz  4MB Bcache
CPU 1                Alpha EV6 pass 2.3 500 MHz  4MB Bcache
.
.
.
```

Note: CPU1 is either a 54-30158-03 or -05 CPU.

Example 4 Illegal Configuration (Pass 2.3 CPUs and Old Firmware Version)

In Example 4, EV6 pass 2.3 CPUs are installed, and the SRM firmware is below the minimum required level.

Required actions:

1. Call your local Field Service office or 1-800-OK-COMPAQ (1-800-652-6672) and inquire about FCO# 00-ES40 F.001 for the ES40 system. Under this Field Change Order, Field Service will upgrade all your EV6 pass 2.3 CPUs to pass 2.5 at no cost to you.
2. Update SRM firmware to V5.5-107. Obtain the firmware executable from the interim firmware site and read the readme.txt before doing the update.

<http://ftp.digital.com/pub/Digital/Alpha/firmware/interim/es40/>

```
P00>>>show config | more
                        Compaq Computer Corporation
                        Compaq AlphaServer ES40

Firmware
SRM Console:          V5.5-68
.
.
Processors
CPU 0                 Alpha 21264-4 500 MHz 4MB Bcache
CPU 1                 Alpha 21264-4 500 MHz 4MB Bcache
.
.
.
```

Note: Earlier firmware versions do not text decode the EV6 revision register field. The CPUs in this case are either 54-30158-03 or -05 EV6 pass 2.3.

