Product Description

Configuration Menu should be used with DIGITAL Enterprise Integration Package OpenVMS AlphaServer 4x00 DIGITAL HiTest Notes available at http://cosmo.tay.dec.com and select CONFIG on the content button tool bar and http://www.partner.digital.com:9003/cgi/comet. For a hardcopy of this Suite’s Notes order EK-HEIVA-HN.

DIGITAL HiTest Suites are guidelines for configuring a set of prequalified computer systems. A DIGITAL HiTest Suite often contains all the hardware and software needed for a complete customer solution. DIGITAL HiTest Suites can be used as a basis for configuring systems that satisfy a wide set of customer requirements. Typically, Suites target specific markets such as Data Warehousing or organizations with OpenVMS DIGITAL Enterprise Integration Package servers for medium- to high-end workgroups.

DIGITAL Product Management and Engineering select the components and design the HiTest configurations to ensure high system reliability, application performance, and upgradability. Hardware and software components have been successfully tested for interoperability and other attributes.

A DIGITAL HiTest Suite specifies allowed ranges of hardware and software components, as well as each component's part number, description, and revision information. These specifications are listed in the DIGITAL HiTest Template, which consists of three categories.

- **AppSet Software** – Includes software specific to one class of customer solutions, in this case organizations with OpenVMS DIGITAL Enterprise Integration Package servers for medium- to high-end workgroups.

- **Foundation Hardware** – Includes the base system, storage, and other hardware options.

- **Foundation Software** – Includes the operating system, middleware, and database software.

When ordering an item from a DIGITAL HiTest Template, select a quantity that is within the minimum and maximum range for the item. If the minimum quantity is zero (0), the component is optional. If the minimum quantity is one or more, order at least the minimum quantity, do not exceed the maximum quantity. The maximum quantity represents the greatest number of components that were tested for interoperability and other attributes with all the other components in the Suite.

In addition, advanced server management features are provided with all AlphaServer 4000/4100 systems via the ServerWorks Manager kit.
Step 1—AlphaServer 4100/4000 Systems

Configuration menus require the selection of:

- **A System Drawer**
  - UltraSCSI 4.3 GB disks

- **A Pedestal or Cabinet enclosure**
  - A PCI to CI Adapter

- **An UltraSCSI Shelf**
  - CI Cables conforming to customer needs

- **A high-resolution color monitor**
  - An OpenVMS Cluster Software License

Step 1a—AlphaServer System Drawer

Configuration menus require selection of AlphaServer System Drawer and Pedestal Enclosure.

**System Drawer includes**

**AlphaServer 4100 System Drawer** with

- Alpha microprocessor 21164 5/466 MHz CPU, 4 MB secondary cache
- Eight PCI slots (five available)

**AlphaServer 4000 System Drawer** with

- Alpha microprocessor 21164 5/466 MHz CPU, 4 MB secondary cache
- Eight PCI slots (five available), or 13 PCI slots available with PCI slot expansion option installed
- Integral (internal-only SCSI bus) to support removable media (CD-ROMs and tapes)
- Integral CD-ROM drive (standard)
- 1.44 MB diskette drive (standard)
- Two EIA-232 asynchronous serial ports, 9-pin D-subminiature connectors
- One parallel port, 25-pin D-subminiature connectors
- Keyboard and mouse ports
- 450 W auto-sensing power supply
- Memory (included memory uses one memory slot)
- Ethernet (10/100 Mbit) Controller (uses one PCI slot)
- One-port single-ended UltraSCSI Controller (uses one PCI slot)
- S3 TRIO 1 MB RAM graphics adapter (uses one PCI slot)
- 3-button mouse
- Keyboard (Americas and Asia Pacific orders only). Select country-specific keyboard for all systems ordered in other countries
- Integral remote system console
- Operating system license
- Customer documentation
- Hardware warranty
- Software warranty

* For Warranty description and available service upgrades; see Hardware and Software Warranty and Supplemental Services Section.

**AlphaServer OpenVMS System Drawers**

Systems include pre-installed OpenVMS, Base license, and DIGITAL Enterprise Integration Package (EIP). EIP includes: OpenVMS Management Station, DECamds, Archive Backup System for OMT, Archive Backup Agent for Windows NT, Datametrics ViewPoint for OpenVMS Data Collector, Datametrics ViewPoint Performance Management Console, eXcursion, DECnet Plus for OpenVMS Alpha End System, DIGITAL TCP/IP Services for OpenVMS, DIGITAL PATHWORKS 32, PATHWORKS for OpenVMS (LAN Manager), Purveyor Encrypt WebServer for OpenVMS Alpha, Netscape Communications Server for OpenVMS Alpha, Netscape Navigator for OpenVMS Alpha, DECwindows Motif for OpenVMS Alpha.

- Order media and documentation separately. See Software Section.

**AlphaServer 4100 OpenVMS System Drawer**

<table>
<thead>
<tr>
<th>Order Number</th>
<th>CPU</th>
<th>Cache</th>
<th>Memory</th>
<th>Available Slots</th>
</tr>
</thead>
<tbody>
<tr>
<td>DY-51JAC-GB</td>
<td>5/466</td>
<td>4 MB</td>
<td>2 GB</td>
<td>5 PCI</td>
</tr>
<tr>
<td>DY-51JAC-FB</td>
<td>5/466</td>
<td>4 MB</td>
<td>1 GB</td>
<td>5 PCI</td>
</tr>
</tbody>
</table>

**AlphaServer 4000 OpenVMS System Drawer**

<table>
<thead>
<tr>
<th>Order Number</th>
<th>CPU</th>
<th>Cache</th>
<th>Memory</th>
<th>Available Slots</th>
</tr>
</thead>
<tbody>
<tr>
<td>DY-53JEC-GA</td>
<td>5/466</td>
<td>4 MB</td>
<td>2 GB</td>
<td>5 PCI</td>
</tr>
<tr>
<td>DY-53JEC-FA</td>
<td>5/466</td>
<td>4 MB</td>
<td>1 GB</td>
<td>5 PCI 1</td>
</tr>
</tbody>
</table>

1. Thirteen available PCI slots with PCI I/O Expansion Option (H7150-AA).
Step 1b—Pedestal Enclosure

Select one Pedestal enclosure.

- The Pedestal hardware includes:
  - 4.3 GB 7200 RPM UltraSCSI Disk (DS-RZ1CB-VW)
  - Pedestal with one StorageWorks shelf and mounting kit
- Pedestal Enclosure supports one System Drawer and up to three StorageWorks shelves.
- Pedestal Enclosure includes StorageWorks Shelf and one 4.3 GB hard disk drive.

BA30P-AA 120 V Americas AP
BA30P-BA 240 V Europe; order two country-specific power cords from Step 8.

Step 2—Qualified DIGITAL HiTest Hardware Components

Additional CPU Modules (SMP Upgrades)

- This HiTest Suite supports a maximum of two CPU modules per system drawer. The limit of two CPU modules per system drawer applies to both the AlphaServer 4100 and the AlphaServer 4000
- All SMP upgrades include processor module with Alpha microprocessor SMP license, and end-user product warranty.
- Order a maximum of one OpenVMS SMP Upgrade.

KN304-DC OpenVMS SMP Upgrade includes one 5/466 (4 MB) CPU and OpenVMS SMP license

Memory

- All System Drawers include one memory option.
  - AlphaServer 4100 System Drawer supports up to three additional memory options
  - AlphaServer 4000 System Drawer supports one additional memory option
- Maximum of 4 GB in this HiTest Suite.

Order additional memory modules required. (Do not exceed HiTest Suite limit of 4 GB).

MS330-FA 1 GB memory option
MS330-GA 2 GB memory options

Networks and Communications Controllers

This HiTest Suite supports a maximum of one optional PCI Fast Ethernet controller and two optional PCI/FDDI Network Adapters.

Order network adapters as required:

DE500-AA PCI 10/100-Mbit Fast Ethernet Controller
DEFPA-DB PCI/FDDI Network Adapter

Monitors

- Systems include PCI-based graphics (uses one PCI slot).
- OpenVMS console functions, including the RAID Configuration Utility (RCU), can be performed using a standard video terminal (VT2xx, VT3xx, VT4xx, or VT5xx) connected to one of system serial ports.
- Graphics monitor is optional.

SN-VRCX5-W* 15" (13.9" viewable image size) high resolution color monitor (Corporate Series)
SN-VRCX7-W* 17" (16.0" viewable image size) high resolution color monitor (Corporate Series)
SN-VRTX7-W* 17" (16.0" viewable image size) high resolution color monitor (Professional Series), Trinitron
SN-VRCX1-W* 21" (19.7" viewable image size) high resolution color monitor (Professional Series), Diamondtron

* WA=Northern Hemisphere with 120V power cord, W3=Northern Hemisphere without power cord, W4=Southern Hemisphere without power cord.

3.24 HiTest Systems
Step 2—Qualified DIGITAL HiTest Hardware Components (continued)

Internal Storage
- This HiTest Suite supports up to three additional UltraSCSI disk drives and requires the use of at least two additional SCSI disk drives.
- Order the appropriate number of UltraSCSI disk drives.

DS-RZ1CB-VW 4.3 GB 7200 RPM UltraSCSI Disk

Storage Controllers (Cluster Connection)
This HiTest Suite supports connection to a cluster as an external storage option. A maximum of two PCI to CI Adapters can be used to implement Cluster connections.
Select a minimum of one, or a maximum of two, of the following PCI-to-CI Adapters, along with a corresponding quantity of CI cables of appropriate length to connect CIPCA to Star Coupler.

CIPCA-BA  PCI-to-CI Adapter
BNCIA-10  10-m CI Cable
BNCIA-20  20-m CI Cable
BNCIA-45  45-m CI Cable

Software

Operating System Software
The Operating System is OpenVMS, Version 7.1, which is included as Factory Installed Software on the base AlphaServer system described in Step 1.
The following item is required to run OpenVMS, Version 7.1:

QA-MTIAA-H8 OpenVMS Media and documentation on CD-ROM. Note: Media and documentation are required for the first system at the site.
QL-MUZAC-AA OpenVMS Cluster Software License

The following items are optional:

QL-MT3AA-3* OpenVMS, Version 7.1 Concurrent Use License
Note: The asterisk (*) in the part number for this line item denotes variant fields. For additional information about available licenses, services, and media, refer to the appropriate price book.
QL-2A1AA-3B Volume Shadowing License for OpenVMS Alpha
Note: Part number QL-2A1AA-3B is a per-disk license; when this license is used, one copy of the license must be ordered for each disk
QL-2A1AQ-AA Volume Shadowing License for OpenVMS Alpha
Note: Part number QL-2A1AQ-AA is a software capacity license; when the software capacity license is used, only one copy of the license is ordered for the HiTest System.

Layered Products
Layered Products must be installed from the following CD-ROM:

QA-03XAA-H8 Layered Products CD-ROM
Note: Media and documentation is required for the first system at the site.
Step 2—Qualified DIGITAL HiTest Hardware Components (continued)

Software (continued)

AppSet Software

The AppSet software for this HiTest Suite is the DIGITAL Enterprise Integration Package. The DIGITAL Enterprise Integration Package is included as Factory Installed Software (FIS) on the base system, which is described in Step 1.

The following services of the DIGITAL Enterprise Integration Package are included:
- Management
- Network Transport and Connectivity
- File and Print

Third-Party Software

The DIGITAL Enterprise Integration Package software includes three applications from third-party software suppliers. After the DIGITAL Enterprise Integration Package software is installed, the customer must obtain permanent software licenses for the three applications, which are as follows:
- Netscape Communications Server—License is supplied by DIGITAL under DIGITAL part number QL-57BA9-AA.
- Purveyor Encrypted Server—License is supplied by DIGITAL under the following DIGITAL part numbers:
  - QL-57HA9-AA (International)
  - QL-57GA9-AA (US and Canada)
- Datametrics Viewpoint—License is supplied by the third-party software supplier. For more information, contact Datametrics at 1-888-436-6300.

System Management Station

System Management Station Hardware

The System Management Station allows the AlphaServer to be controlled from a single terminal, keyboard and mouse.

The System Management Station hardware consists of a DIGITAL PWS 200i Personal Workstation for Windows NT, or a functionally equivalent X86 system, and a high-resolution color monitor.

The DIGITAL PWS 200i Personal Workstation for Windows NT, or the functionally equivalent X86 system, includes the following hardware and software:
- Hardware:
  - 200 MHz CPU with 256 KB cache
  - 64 MB memory
  - Matrox Millenium 3D graphics
  - 10BaseT/10Base2 Ethernet
  - 2.0 GB UW disk
  - EIDE CD-ROM
  - 1.44 MB floppy
  - PS/2 style keyboard
  - Two-button PS/2 compatible mouse

- Software:
  - Windows NT 4.0

SN-B3KAP-EL DIGITAL PWS 200i Personal Workstation for Windows NT

System Management Station Monitor

Select one high-resolution color monitor (the 21” is recommended).

SN-VRCX5-W* 15” (13.9” viewable image size) high resolution color monitor (Corporate Series)
SN-VRTX7-W* 17” (16.0” viewable image size) high resolution color monitor (Corporate Series)
SN-VRCX1-W* 21” (19.7” viewable image size) high resolution color monitor (Professional Series), Diamondtron

* WA=Northern Hemisphere with 120V power cord, W3=Northern Hemisphere without power cord, W4=Southern Hemisphere without power cord.
Step 2—Qualified DIGITAL HiTest Hardware Components (continued)

System Management Station Software

The System Management Station requires the following software.

- Windows NT Client, Version 4.0 media, documentation, and license, which is included with the DIGITAL PWS 200i Personal Workstation for Windows NT (SN-B3KAP-EL) or functionally equivalent X86 system.
- Windows NT Service Pack 3, which is available from Microsoft
- DIGITAL PATHWORKS 32, Version 7.0A Media and Documentation (part number QA-5LKA-H8).
  - Media and documentation are required for each installation site.
  - From November 21, 1997, PATHWORKS 32 will be included on the OpenVMS Software Library Package.
- DIGITAL PATHWORKS 32, Version 7.0A system license, which is included with the AlphaServer system and includes the following:
  - PATHWORKS 32 networking components
  - eXcursion for Windows 95 and Windows NT 4.0
  - PowerTerm 525 terminal emulator
- OpenVMS Management Tools (OMT) V2.0, which is included with the AlphaServer system
System Diagram for Minimum Configuration

Note: DS-RZ1CB-VW replaces RZ29B-VW, which was used for testing this HiTest Suite.