The HP workstation c3650 with UNIX offers the perfect balance of price and performance in a deskside design system for running mechanical design and CAE applications. Supporting a high performance CPU; wide range of graphics alternatives; and maximum configuration flexibility at attractive pricing, the HP workstation c3650 delivers the superior application performance you need to deal with your most compute intensive tasks. It will help slash product cycle times and shorten time to market. The HP workstation c3650 is perfect for engineers designing complete products, reviewing virtual prototypes, and performing small to medium-sized analyses.

The driving force behind the HP workstation c3650 is a PA-8700 processor running at 625MHz. Team the power of the PA-8700 processor with the HP workstation c3650’s capacity to support up to 8GB RAM, 146GB internal disk, and six PCI cards, and you have a high intensity performance workstation at an affordable price. If you need configuration flexibility with a familiar form factor and O/S, you can deploy the HP workstation c3650 with confidence. Invent the future in real time with the HP workstation c3650.

<table>
<thead>
<tr>
<th>hp workstation c3650</th>
<th>feature</th>
<th>benefit</th>
<th>advantage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>performance</strong></td>
<td>PA-8700 RISC-processor running at 625MHz</td>
<td>maximizes bandwidth and boosts system performance/execution</td>
<td>best application performance</td>
</tr>
<tr>
<td>2.25MB on-chip cache</td>
<td>enhances system performance by minimizing latency and maximizing throughput</td>
<td>industry’s largest on-chip cache increases application performance</td>
<td></td>
</tr>
<tr>
<td>four-way set associative cache</td>
<td>requires less disk-to-cache access for instructions and data, providing higher performance</td>
<td>decreases the miss rate of direct mapped cache</td>
<td></td>
</tr>
<tr>
<td>8GB SDRAM capacity</td>
<td>delivers higher application performance with less disk access; supports interactive work with complex 3D designs and virtual prototypes</td>
<td>delivers the largest RAM capacity available on any uni-processor workstation today</td>
<td></td>
</tr>
</tbody>
</table>

| **graphics** | hp fx graphics card | enables universal access to all types of data across diverse, cross-functional teams | provides full-featured, 3D capability across all hp workstation platforms |
| hp fx® pro graphics card | supports faster visualization of mid-size mechanical assemblies | delivers the industry’s best mid-range 3D graphics performance for mechanical design work |
| hp fx® pro graphics card | supports faster visualization and interactive work with the largest 3D models | delivers the world’s fastest 3D graphics performance for simulation and design work |

| **integration** | rack mountable | saves space, particularly when deployed in your systems operations room | supports on-side configuration as well as upright, desktop placement |

| **investment protection** | expansive tower with 6 industry-standard PCI slots | gives you the flexibility to expand your system | provides more capacity for PCI I/O cards |
| binary compatibility with future | protects your investment in applications, data and systems | ensures smooth transition to hp’s next-generation high-performance systems |
hp workstation c3650 technical specifications

central processor
- type: PA-8700
- clock frequency: 625MHz
- number of processors: 1

primary cache (on chip)
- total cache: 2.25MB
- instruction: 0.75MB
- data: 1.50MB

performance
HP workstation performance results can be found at: http://www.hp.com/workstations/products/unix/performance.html

main memory
- bus bandwidth: 1.9GB/second
- RAM type: 120MHz SDRAM
- capacity: 512MB-8GB
- memory slots: 8

PCI slots (6 total)
- PCI 1X (half card) 2 slots
- PCI 2X (full size) 3 slots
- PCI 4X (full size) 1 slot

internal storage devices
- Ultra 2 SCSI LVD 80 pin SCA connector
- 2 drives maximum
  - 18GB (10K RPM)
  - 36GB (10K RPM)
  - 36GB (15K RPM)
  - 73GB (10K RPM)

removable media
- CD-ROM or CD-RW* 1 internal
- 3.5 inch/1.44MB floppy drive 1 internal

*HP-UX 11.0 and higher

external storage
- NSE SCSI (HD50) 1 port - up to 7 devices
- Ultra2 SCSI LVD 1 port - up to 13 devices

networking interface
- integrated 10/100 Base-Tx
- LAN data rate 10/100 Mbits/sec

other I/O
- serial interface 9-pin DIN 2 ports
- parallel interface 25-pin DIN 1 port
- USB Series A 2 ports (keyboard and mouse only)

audio
- type: integrated, CD-quality stereo
- inputs: stereo line-in, MIC-in
- outputs: stereo line-out, internal speaker, headphone

hp graphics cards
- graphics cards: 4 max
- max resolutions* 1600x1200
- image planes/overlay planes 24/24DB
- z-buffer 8 overlay
- stencil planes 4-bit HW
- alpha planes SW
- texture memory Std. 9.5MB
- color maps image planes 2 image
  overlay planes 2 overlay

hp fxe
- graphics cards: 1 max
- max resolutions* 1600x1200
- image planes/overlay planes 24/24DB
- z-buffer 8 overlay
- stencil planes 4-bit HW
- alpha planes SW
- texture memory Std. 9.5MB
- color maps image planes 2 image
  overlay planes 2 overlay

hp fx® pro
- graphics cards: 1 max
- max resolutions* 1600x1200
- image planes/overlay planes 24/24DB
- z-buffer 8 overlay
- stencil planes 4-bit HW
- alpha planes SW
- texture memory Std. 9.5MB
- color maps image planes 2 image
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hp fx® pro
- graphics cards: 1 max
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- stencil planes 4-bit HW
- alpha planes SW
- texture memory Std. 9.5MB
- color maps image planes 2 image
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monitor
- 18.1" (18.1" viewable) 1280x1024 res LCD flat panel display
- 19" (18" viewable) 1600x1200 res. Flat FD Triniton® CRT display
- 21" (19.8" viewable) 1600x1200 res flat FD Triniton CRT display
- 24" (22.5" viewable) 1920x1200 res flat FD Triniton CRT display

operating system supported
- hp-ux 11i TCOE (Technical Computing Operating Environment)
- hp-ux 11i MTOE (Minimal Technical Operating Environment)
- hp-ux 11.0

environmental specifications
- altitude
  - operating: 0-3000m (0-10,000 ft)
  - non-operating: 0-4500m (0-15,000 ft)
- temperature
  - operating: 5 to +40 °C
  - non-operating: -40 to +70 °C
- humidity
  - operating: 15 to 80% (non condensing)
- vibration
  - operating random: 0.21Grms, 5-500Hz
  - swept sine survival: 0.50Gpeak 5-500Hz
  - random survival: 2.09Grms, 5-500Hz
- safety
  - UL1950, CUL to CSA
  - C22.2#950, and TUV GS
  - Mark to EN60950/IEC950
- emissions
  - FCC and CISPR Class B
  - and VCCI Class B

physical dimensions
- height: 44.5cm (17.5 inches)
- width: 22.0cm (9.0 inches)
- depth: 49.5cm (19.5 inches)

physical dimensions with rack kit
- height: 6 EIA units
- width: 48.3cm (19 inches)
- depth: 66.5cm (25.8 inches)
- rack orientation system racks on its side

net weight
- minimum configuration: 20.9kg (45.9 lbs.)
- fully loaded: 25.4kg (55.8 lbs.)

power requirements
- input current
  - 7.4amps RMS max @ 100-120V
  - 3.8 amps RMS max @ 220-240V
- line frequency: 50-60Hz
- maximum power input: 805 watts @ 120 VAC, 60Hz

The hp workstation c3650 – power to invent in real time

For the latest information about HP workstations: http://www.hp.com/workstations

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* with full feature set and 75Mz refresh
** DB=double buffered
*** at 1280x1024 resolution