**Extreme Uniprocessor Power**

Pure processing power. The HP workstation c3700 is the ultimate uniprocessor UNIX deskside tower. It will help slash product cycle times and shorten time to market. Engineers and scientists working in the automotive, aerospace, and EDA markets will particularly appreciate the compute power offered by the HP workstation c3700. The HP workstation c3700 draws its speed from the PA-8700 processor running at 750MHz. Team the power of the PA-8700 with the hp workstation c3700’s capacity to support up to 8GB RAM, 146GB internal disk, and six PCI cards, and you have a workstation that breaks through traditional bottle-necks of computation and desktop 3D design.

Complimented by robust system architecture with fast memory and disk technologies, the HP workstation c3700 is masterfully crafted and optimized to maximize bandwidth, minimize system latency, and boost performance.

<table>
<thead>
<tr>
<th>hp workstation c3700</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 750MHz</td>
<td>completes your designs faster than any other desktop available today</td>
<td>best application performance</td>
</tr>
<tr>
<td></td>
<td>2.25MB on-chip cache</td>
<td>enhances system performance with greater application speed and throughput</td>
<td>minimizes system latency with the industry’s largest on-chip cache</td>
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<td></td>
<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>
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<td></td>
<td>8GB Synchronous DRAM 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>
</tr>
<tr>
<td><strong>graphics</strong></td>
<td>hp fxe graphics accelerator</td>
<td>enables universal access to all types of data across diverse, cross-functional teams</td>
<td>provides full-featured, 3D capability across all hp workstation platforms</td>
</tr>
<tr>
<td></td>
<td>hp fx5pro graphics accelerator</td>
<td>supports faster visualization of mid-size mechanical assemblies</td>
<td>delivers the industry’s best mid-range 3D graphics performance for mechanical design work</td>
</tr>
<tr>
<td></td>
<td>hp fx10pro graphics accelerator</td>
<td>supports faster visualization and interactive work with the largest 3D models</td>
<td>delivers the world’s fastest 3D graphics performance for mechanical design work.</td>
</tr>
<tr>
<td><strong>integration</strong></td>
<td>rack mountable</td>
<td>saves space, particularly when deployed in your systems operations room</td>
<td>supports on-side configuration as well as upright, desktop placement</td>
</tr>
<tr>
<td><strong>investment protection</strong></td>
<td>expansive tower with 6 industry-standard PCI slots</td>
<td>gives you the flexibility to expand your system</td>
<td>provides more capacity for PCI I/O cards</td>
</tr>
<tr>
<td></td>
<td>binary compatibility with future PA-RISC and Intel Itanium™ processors</td>
<td>protects your investment in applications, data and systems</td>
<td>ensures smooth transition to hp’s next-generation high-performance systems</td>
</tr>
</tbody>
</table>
**hp workstation c3700 technical specifications**

**central processor**
- type: PA-8700
- clock frequency: 750MHz
- number of processors: 1

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

**performance**

**main memory**
- bus bandwidth: 1.9GB/sec
- 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 1.10 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 speakers, headphones

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

**monitor**
- 18.1" (18.1" viewable): 1280x1024 res LCD flat panel display
- 19" (18" viewable): 1600x1200 res, Flat FD
- Trinitron® CRT display
- 21" (19.8" viewable): 1600x1200 res flat FD
- Trinitron CRT display
- 24" (22.5" viewable): 1920x1200 res flat FD
- Trinitron CRT display

**hardware**
- 481x469

**environmental specifications**
- altitude:
  - operating: 0-3000m (0-10,000 ft)
  - non-operating: 0-4500m (0-15,000 ft)
- temperature:
  - operating: 5 to +40 degrees C
  - non-operating: -40 to +70 degrees C
- humidity:
  - operating: 15 to 80% (non condensing)
- vibration:
  - operating random: 0.21 G rms, 5-500Hz
  - swept sine survival: 0.5 G peak, 5-500Hz
  - random survival: 2.09 G rms, 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: 22.9cm (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 c3700 workstation—power to invent in real time

For the latest information about HP workstations: [http://www.hp.com/workstations](http://www.hp.com/workstations)

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