

Table 1. Mobile Workstation Features

	DELL	HEWLETT-PACKARD	IBM CORP.
System	Dell Precision M60 Mobile Workstation	HP Compaq Mobile Workstation nw8000	IBM ThinkPad T42p
Star rating	★★★★★	4.5 stars	4.5 stars
Phone	800.289.3355	800.752.0900	800.746.7426
Web site	www.dell.com	www.hp.com	www.ibm.com
Estimated street price	\$3,893	\$4,299	\$3,849
Warranty			
Labor/parts/onsite (months)	Three years, next business day on-site service	36/36/36	Three years labor and parts; 1 year battery
24-hour replacement parts	Yes	Yes	Yes
24-hour telephone support	Yes	Yes	Yes
Processor speed/type	2GHz /Intel Pentium M 755	2GHz/Intel Pentium M 755	2GHz/Intel Pentium M 755
L2 cache	2MB/400MHz front-side bus	2MB/400MHz front-side bus	2MB/400MHz front-side bus B
Memory type/speed	DDR SDRAM/333MHz	DDR SDRAM/333MHz	PC 2700 DDR SDRAM
Memory as tested/maximum	1GB/2GB	1GB/2GB	1GB/2GB
Hard drive vendor/size	Multiple vendors/60GB ATA-100 (7,200rpm)	60GB (5,400rpm)	Hitachi/60GB (7,200rpm)
Graphics chipset	NVIDIA FX Go1000	ATI Mobility Fire GL T2 graphics controller, OpenGL	ATI Mobility FireGL T2
Graphics memory installed	128MB DDR	128MB video memory	128MB DDR
Dimensions (wXdXh)	14.2" X 10.9" X 1.5"	1.6" X 12.8" X 10.8"	13" X 10.6" X 1.2"-1.4"
Weight	7.4lb with CD-ROM and 9-cell battery	6.5lb with weight saver; 7.1lb with CD-RW	5.5lb
Display size/type	15.4" WUXGA display active-matrix TFT	15" TFT UXGA with wide viewing angle	15" UXGA TFT
Resolution	1920X1200	1600X1200, wide angle	1600X1200
Battery type	9-cell lithium ion/72Whr	8-cell lithium ion	9-cell lithium ion
Tested battery life (active/idle)	1h54m/3h11m	1h55m/4h11m	2h6m/5h17m
Ports			
Serial	One	One	No
Parallel	One	One	One
Firewire	One 4-pin mini-1394, nonpowered	One	No
USB	Three v2.0	Two v2.0	Two v2.0
IR	One	One	One
Video	One	S-Video Out	S-Video Out
Other	Docking connector	1 SD (secure digital) slot	Port replicator/docking, external display, AC adapter, more.
Input device	Touchpad; Integrated Pointing Device	SpaceTraveller, wireless HP Mouse	UltraNav TouchPad and Track-Point Press-to-Select
Base station/dock (price)	\$199/\$329	Port Replicator, \$179, Advancedport replicator, \$279	Thinkpad Dock II, \$399
ISV certifications	All major ISVs	Yes, see Web site	Yes, see Web site
Accessories (if any)	Second 90W AC adapter; D/Bay external media bay; D/Monitor stand; more.	Traveler Spaceball for Mobile Workstation (\$499); wireless Mouse (\$49).	Docking solution; 6-cell and 9-cell bay battery; more.
C2001 (1280x1024/true-color)			
C2001 Total Index	80.66	58.94	61.77
C2001 Wire frame Index	66.59	28.15	26.94
C2001 Gouraud Shade Index	109.00	57.83	69.61
C2001 Nongraphics Index	106.56	107.8	108.21
C2001 2D Graphics Index	40.50	41.96	42.34
MaxBench4 (1280x1024; true color)			
Average of high/low scores	45.60/78.92 with MAXtreme 6.00.07.00	37.25*	43.84*
Viewperf v7.1.1 (native resolution; true color) proe-02 test suite	26.08	13.8 † (27.09-HP test with new driver)	28.62
Video driver	NVIDIA v6.14.10.5382	ATI v7.91.4-030724a-010495C	ATI v6.14.10.6444

* Both systems with the ATI chipset had problems running the Maxbench4 benchmarks under 3ds max 6. The Hewlett-Packard nw8000 ran it only when using the accelerated max driver that comes with the system. The IBM ThinkPad T42p wouldn't run at all without the accelerated drivers. All Maxbench4 performance figures for the HP and IBM systems reflect performance using the special max driver.
 † This low score could be a driver and/or a chipset revision level problem, both of which I've encountered independently and in combination on systems that use ATI chipsets. Editor's note: HP now ships this mobile workstation with an updated driver (ATI v7.962-031202M1-012957C and finds that achieves a score of 27.09 on the Viewperf test.