Table 1 Workstation features

	DELL Precision 350 Workstation	POGO-LINUX Verona Workstation	SYS TECHNOLOGIES PowerHouse 2800
Star rating	4.5	4.5	★★★★★
Phone	800.999.3355	888.828.7646	800.613.9963
Web site	www.dell.com	www.pogolinux.com	www.sys.com
Estimated street price	$3,449	$3,065	$3,495
Warranty (labor/parts/onsite; months)	36/36/36; more options available	48/48/0 more options available	60/36 (CPU&RAM 72)/12 3-year onsite available
24-hr. parts/phone support	Yes/Yes	Yes/24-hr. e-mail support	Yes/Yes Phone 7-7 daily
CPU type/speed	Intel Pentium 4/2.8GHz	Intel Pentium 4/28GHz	Intel Pentium 4/2.8GHz
Dual CPU support	No	No	No
L2 cache size/speed	512K	512K	512K
Chipset	Intel 850E	845G	Intel 850E
Front-side bus speed	533MHz	533MHz	533MHz
PCI bus size/speed	32bit/33MHz	32bit/33MHz	32bit/33MHz
Motherboard vendor/model	Dell designed/Precision 350	SuperMicro/ P4SGA	Gigabyte/Titan 533 (GA-81HXP)
Memory type/speed	RAMBUS ECC RIMM PC1066	DDR Memory PC2100	RAMBUS PC1066
Memory as tested (max)	1GB/2GB	2GB/2GB	1GB/2GB
Memory sockets (total/free)	4/0	2/0	4/0
Supports ECC SDRAM	No	Yes	No
System BIOS; date	Dell designed	AMI, no date	AMI v.3.31A, no date
Power supply vendor/Capacity	Multiple sources/250W	Enermax/300W	Enermax/431W
Hard drive type/size	ATA/120GB 7200rpm	ATA100 (8MB cache)/120GB	ATA100 (8MB cache) 2× 80GB 7200rpm (WD800JB)
CD-ROM drive speed	48×24×48×	20×; DVD 10×	40×12×48× CDRW ATAPI
Other drive	DVD 16x	No	Pioneer DVD0117, 16X ATAPI
Sound card/Speakers	Integrated AC97/No	Integrated 16-bit/No	Integrated Creative Labs/No
Pointing device	MS Intellimouse 1.2A	Logitech iTouch cordless keyboard/mouse	Logitech Cordless Freedom Combo keybd w/mouse
Expansion slots			
Provided (PCI/PCI-ISA/ISA)	4/0/0	6/0/0	6/0/0
Filled (PCI/PCI-ISA/ISA)	0/0/0	0/0/0	0/0/0
Drive bays accessible (5.25″/3.5″)	4/1	4/2	3/1
Drive bays internal (5.25″/3.5″)	0/2	4/3	0/4
Ports			
USB/serial/parallel	8 v2.0 (2 in front)/2/1	4 total (2 v2.0 in back/2/1	6 v.2.0/2/1
MIDI/Game; external SCSI	No; No	Yes; No	Yes; No
Network card (Modem)	Integrated Intel 10/100/1000	Integrated Intel 10/100	Integrated Realtek 10/100
Dimensions (h×w×d)	16.7″ × 7.5″ × 17.6″	16.25″ × 7.75″ × 19.25″	21.25″ × 8.4″ × 17.5″
Graphics card bus (AGP/PCI)	AGP 4×	AGP 4×	AGP 4×
Graphics card vendor/model	ATI/FireGL X1	PNY NVIDIA/Quadro4 900XGL	NVIDIA/Quadro4 900XGL
Chip set	FGL 9700	Quadro4 900XGL	Quadro4 900XGL
Frame-buffer memory (Installed/max.)	256MB/256MB	128MB/128MB	128MB/128MB)
Driver version	6.13.10.1012	6.13.10.2980	6.13.10.4041
Max 3D resolution*	2048×1536@75Hz	2048×1536@75Hz	2048×1536@75Hz
Colors/refresh	True color	True color	True color
AutoCAD (driver version)	Standard; wopengl7.hdi	Standard; wopengl7.hdi	Standard; wopengl7.hdi
Total Weighted Index	69.48	68.07	73.45
C2001 v3.0 Total Index	95.57	96.05	105.31
Max Bench v4.0 (MAX5)	MAXimum v.1.3.1012 Driver	MAXtreme 4.00.25	MAXtreme 4.00.25
Average of high/low scores	42.7	43.15	33.58
Viewperf v7 Proe01 test suite	17.99	9.03	17.73

* Double buffer/16bit z-buffer (70Hz minimum refresh rate).

† All tests run at 1280×1024 resolution in true-color mode. Max Bench run with 3ds max v5.

Table 1 Workstation features

	TRI CAD/CAM StarStation SS530	XI COMPUTER Xi 4286 MTower SP
Star rating	★★★★★	★★★★★
Phone	800.800.3401	800.432.0486
Web site	www.tristar.com	www.xicomputer.com
Estimated street Price	$2,695	$3,049
Warranty		
Labor/parts/onsite; months)	36/36/0 onsite option available	36/36/12 more onsite options
24-hr. parts/phone support	Yes/Yes (both extra charge)	Yes/Yes
CPU type/speed	Intel Pentium 4/2.88GHz	Intel Pentium 4/2.88GHz
Dual CPU support	No	No
L2 cache size/speed	512KB	512KB
Chipset	Intel 850E	Intel 850E
Front-side bus speed	533MHz	533MHz
PCI bus size/speed	32bit/33MHz	32bit/33MHz
Motherboard vendor/model	Intel/D850EMV2	Gigabyte/GA-81HXP
Memory type/speed	RAMBUS PC800	RAMBUS 1066MHz
Memory (as tested/max.)	1GB/2GB	1GB/2GB
Memory sockets (total/free)	4/0	4/4
Supports ECC SDRAM	No	Yes
System BIOS; date	Intel P15/25 July 2002	AMI v.3.31A July 3, 2002
Power supply vendor/capacity	Enlight/420W	HEC/350W
Hard drive type/size	ATA 100 7200RPM/120GB	Ultra ATA 100 (8MB cache)/ 120GB 7200rpm
CD-ROM drive speed	40x12x48	40x16x12x12
Other drive	Sony 16xDVD 40xCDROM	DVD combo with CD-RW
Sound card/speakers	Integrated/No	Integrated AC97/No
Pointing device	Microsoft Intellimouse	Logitech USB Optical Mouse
Expansion slots		
Provided (PCI/PCI-ISA/ISA)	5/0/0	6/0/0
Filled (PCI/PCI-ISA/ISA)	0/0/0	0/0/0
Drive bays		
Accessible (5.25″/3.5″)	4/2	4/1
Internal (5.25″/3.5″)	0/4	0/7
Ports:		
USB/serial/parallel	2 (v.2.0)/2/1	6 + 4 v.2.02/1
MIDI/Game; External SCSI	No/No	Yes/No
Network card (modem)	Integrated Intel 82562ET	Integrated
Dimensions (hxwxd)	21.75″ × 8.75″ × 18.5″	17.5″ × 7.875″ × 17.875″
Graphics card bus (AGP/PCI)	AGP 4×	AGP 4× (8× card)
Graphics card vendor/model	NVIDIA/Quadro4 900 XGL	NVIDIA/Quadro4 980 XGL
Chipset	Quadro4 900 XGL	NV25GL
Frame-buffer (installed/max.)	128MB (128MB)	128MB (128MB)
Driver version	6.13.10.3082	6.13.10.4071
Maximum 3D resolution*	2048×1536@75Hz	2048×1536@75Hz
Colors/refresh	True color	True color
AutoCAD (driver version)	Standard; wopengl7.hdi	Standard; wopengl7.hdi
Total Weighted Index	71.93	75.41
C2001 v3.0 C2001 Total Index	100.01	104.21
Max Bench v4.0 (MAX5)	MAXtreme 4.00.25	MAXtreme 4.00.25
Average of high/low scores	44.8	46.03
Viewperf v7 Proe01 test suite	14.81	18.38

* Double buffer/16bit z-buffer (70Hz minimum refresh rate).

† All tests run at 1280x1024 resolution in true-color mode.

STAR RATINGS EXPLAINED

Under *Cadalyst*'s comparative review rating system, each product receives a star rating based on the Reviewers' Report Card.

★★★★★ **Five stars:** Highly Recommended. Product is superior to others in its class. Any flaws are minor and do not interfere with overall performance.

Four stars: Product does what the manufacturer claims, improves productivity, and is a valuable tool.

Three stars: Product has limited value for most readers.