



Testing Report ATI FirePro™ V8700 V.S. Quadro FX5600 Workstation Graphics Comparison

All the reference data are from Tom's hardware Website
<http://www.tomshardware.com/reviews/amd-firepro-v8700,2154.html>

Platform :

System Hardware	
CPU	Intel Core 2 Extreme QX6800 (2.93 GHz)
Motherboard	Asus P5W64 WS Pro (rev 1.01, BIOS 0802) with Intel 975X Chipset
System memory (RAM)	4 GB (4 x 1 GB) Corsair XMS2-6400 (CM2X10246400-C3) with CL 4.0-4-4-12
Optical drive	Samsung SH-D163A , SATA150
Power supply	Zalman, ATX 2.01, 510 W
Hard disk	Western Digital WD1500ADFD 150 GB

System Software&Drivers	
OS	Windows XP Service Pack 3
3D API Update	DirectX 9.0c
Intel Chipset drivers	Version 8.3.1.1009
ATI FireGL Drivers	Catalyst 8.453.1-081008
Nvidia Quadro Drivers	Quadro 181.20 + Maxtreme 11
SPEC Benchmarks Settings	Application settings according to SPEC Project Group rules, driver using application optimizations if available
SPEC Benchmarks Used	SpecViewperf 10.0 SPECapc 3ds Max 9 (3D Studio Max) SPECapc Solidworks 2007 SPECapc Maya 6.5

Specification :

	FirePro V8700	FireGL V8650	FX5600
Processing Unit	800	320	112
Core Clock	750MHz	675MHz	600MHz
Memory Clock	900MHz	868MHz	800MHz
Fab	55nm	80nm	90nm
Memory Clock	2GHz	1.8GHz	1.8GHz
Bandwidth	115GB/S	111GB/S	76.8GB/S
Memory	1G GDDR5	1G GDDR4	1.5G GDDR3
3-pin Stereo	Yes	Yes	Yes
Display Port	Yes	No	No
Direct X	10.1	10	10
OpenGL	2.1	2.1	2.1

Testing Result

SPECapc Maya 6.5v1.0 / GFX 1600X1200

ATI FireGL V8650 7,91

ATI FirePro V8700 7,79

Nvidia Quadro FX5600 7,42

SPECapc Maya 6.5v1.0 / Overall 1600X1200

ATI FirePro V8700 5,94

ATI FireGL V8650 5,93

Nvidia Quadro FX5600 5,64

Viewperf 10.0 / sw-01 (solidworks) 1600X1200

ATI FirePro V8700 103,33

ATI FireGL V8650 100,98

Nvidia Quadro FX5600 97,91

Viewperf 10.0 / TCVIS-01 (Teamcenter Visualization) 1600X1200

ATI FirePro V8700 37,78

ATI FireGL V8650 35,61

Nvidia Quadro FX5600 28,62

Viewperf 10.0 / maya-02 1600X1200

ATI FirePro V8700 240,20

ATI FireGL V8650 233,31

Nvidia Quadro FX5600 176,35

Viewperf 10.0 / ensight-03 1600X1200

ATI FireGL V8650 50,03

Nvidia Quadro FX5600 47,67

ATI FirePro V8700 46,96

More testing result, please link to

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