

| System Verification results for Autodesk Inventor 9 | Processor     |                      | Number of Processors       | Graphics Card  | Operating System | Physical Memory              | Driver | Notes | Rating    |
|---|---------------|----------------------|----------------------------|----------------|------------------|------------------------------|--------|-------|-----------|
|   | Processor     | Number of Processors |                            |                |                  |                              |        |       |           |
| Dell M60 Mobile Workstation                         | P4-M 1.7GHz.  | 1                    | Nvidia Quadro FX Go700     | Win XP Pro SP1 | 2 GB             | 44.82                        |        |       | Certified |
| Dell M60+ Mobile Workstation                        | P4-M 1.6 GHz. | 1                    | Nvidia Quadro FX Go1000    | Win XP Pro SP1 | 1 GB             | 53.81                        |        |       | Certified |
| Dell Precision Workstation 360                      | P4, 2.4GHz.   | 1                    | ATI FireGL E1              | Win XP Pro SP1 | .256 GB          | 6.12.10.3056                 | 1, 2   |       | Certified |
| Dell Precision Workstation 360                      | P4, 2.4GHz.   | 1                    | Nvidia Quadro4 900 XGL     | Win XP Pro SP1 | .256 GB          | 60.85                        |        |       | Certified |
| Dell Precision WorkStation 370                      | Xeon 3.2GHz.  | 1                    | ATI Fire GL V3100 PCIe     | Win 2K Pro SP4 | 2GB              | 8.043.1.1-040907a1-017986C   | 1, 2   |       | Certified |
| Dell Precision WorkStation 370                      | Xeon 3.2GHz.  | 1                    | ATI Fire GL V3100 PCIe     | Win XP Pro SP2 | 2GB              | 8.043.1.1-040907a1-017986C   | 1, 2   |       | Certified |
| Dell Precision WorkStation 370                      | Xeon 3.2GHz.  | 1                    | Nvidia Quadro FX 1300 PCIe | Win 2K Pro SP4 | 2GB              | 61.76                        |        |       | Certified |
| Dell Precision WorkStation 370                      | Xeon 3.2GHz.  | 1                    | Nvidia Quadro FX 1300 PCIe | Win XP Pro SP2 | 2GB              | 61.76                        |        |       | Certified |
| Dell Precision WorkStation 370                      | Xeon 3.2GHz.  | 1                    | Nvidia Quadro FX 3400 PCIe | Win 2K Pro SP4 | 2GB              | 61.76                        |        |       | Certified |
| Dell Precision WorkStation 370                      | Xeon 3.2GHz.  | 1                    | Nvidia Quadro FX 3400 PCIe | Win XP Pro SP2 | 2GB              | 61.76                        |        |       | Certified |
| Dell Precision WorkStation 450/650                  | P4, 2.4GHz.   | 2                    | 3Dlabs Wildcat 7110        | Win XP Pro SP1 | 1GB              | 6.06.02.60                   |        |       | Certified |
| Dell Precision WorkStation 450/650                  | P4, 2.4GHz.   | 2                    | ATI FireGL E1              | Win XP Pro SP1 | 1GB              | 6.12.10.3064                 | 1, 2   |       | Certified |
| Dell Precision WorkStation 450/650                  | P4, 2.4GHz.   | 2                    | Nvidia Quadro FX 1000      | Win XP Pro SP1 | 1GB              | 60.85                        |        |       | Certified |
| Dell Precision WorkStation 470                      | Xeon 2.8GHz.  | 2                    | ATI Fire GL V3100 PCIe     | Win XP Pro SP1 | 2GB              | 8.023.1-040624a-016505E-ATI  | 1, 2,  |       | Certified |
| Dell Precision WorkStation 470                      | Xeon 2.8GHz.  | 2                    | Nvidia Quadro FX 1300 PCIe | Win XP Pro SP1 | 2GB              | 60.85                        |        |       | Certified |
| Dell Precision WorkStation 470                      | Xeon 2.8GHz.  | 2                    | Nvidia Quadro FX 3400      | Win XP Pro SP1 | 2GB              | 60.85                        |        |       | Certified |
| Dell Precision WorkStation 670                      | Xeon 3.4GHz.  | 2                    | ATI Fire GL V3100 PCIe     | Win 2K Pro SP4 | 2GB              | 8.043.1-040816a-017495E-ATI  | 1, 2   |       | Certified |
| Dell Precision WorkStation 670                      | Xeon 3.4GHz.  | 2                    | ATI Fire GL V3100 PCIe     | Win XP Pro SP1 | 2GB              | 8.043.1-040816a-017495E-ATI  | 1, 2   |       | Certified |
| Dell Precision WorkStation 670                      | Xeon 3.4GHz.  | 2                    | Nvidia Quadro FX 1300 PCIe | Win 2K Pro SP4 | 2GB              | 61.76                        |        |       | Certified |
| Dell Precision WorkStation 670                      | Xeon 3.4GHz.  | 2                    | Nvidia Quadro FX 1300 PCIe | Win XP Pro SP1 | 2GB              | 61.76                        |        |       | Certified |
| Dell Precision WorkStation 670                      | Xeon 3.4GHz.  | 2                    | Nvidia Quadro FX 3400      | Win 2K Pro SP4 | 2GB              | 61.76                        |        |       | Certified |
| Dell Precision WorkStation 670                      | Xeon 3.4GHz.  | 2                    | Nvidia Quadro FX 3400      | Win XP Pro SP1 | 2GB              | 61.76                        |        |       | Certified |
| HP Workstation xw3100                               | P4, 3.0GHz.   | 1                    | ATI FireGL T2              | Win XP Pro SP1 | 1GB              | 7.96.2.1-031211a-012949C-ATI | 1, 2   |       | Certified |
| HP Workstation xw4100                               | P4 3.0GHz.    | 1                    | Nvidia Quadro4 380         | Win XP Pro SP1 | 1GB              | 60.85                        |        |       | Certified |
| HP Workstation xw4100                               | P4 3.0GHz.    | 1                    | Nvidia Quadro4 980         | Win XP Pro SP1 | 1GB              | 60.85                        |        |       | Certified |
| HP Workstation xw4200                               | P4 3.4GHz.    | 2                    | ATI Fire GL V3100 PCIe     | Win XP Pro SP1 | .75GB            | 8.023.1-040624a-016505E-ATI  | 1, 2   |       | Certified |
| HP Workstation xw4200                               | P4 3.4GHz.    | 2                    | Nvidia Quadro FX 1300 PCIe | Win XP Pro SP1 | .75GB            | 61.71                        |        |       | Certified |

|  |                            |   |                            |                  |         |                               |      |           |
|--|----------------------------|---|----------------------------|------------------|---------|-------------------------------|------|-----------|
| HP Workstation xw4200                  | P4 3.4GHz.                 | 2 | Nvidia Quadro FX 330 PCIe  | Win XP Pro SP1   | .75GB   | 60.85                         |      | Certified |
| HP Workstation xw4200                  | P4 3.4GHz.                 | 2 | Nvidia Quadro FX 3400 PCIe | Win XP Pro SP1   | .75GB   | 61.76                         |      | Certified |
| HP Workstation xw5000                  | P4 2.8GHz.                 | 1 | ATI FireGL X1 AGP Pro      | Win XP Pro SP1   | 1GB     | 7.96.2.1-031211a-012949C-ATI  | 1, 2 | Certified |
| HP Workstation xw5000                  | P4 2.8GHz.                 | 1 | Nvidia Quadro4 380         | Win XP Pro SP1   | 1GB     | 60.85                         |      | Certified |
| HP Workstation xw5000                  | P4 2.8GHz.                 | 1 | Nvidia Quadro4 980 XGL     | Win XP Pro SP1   | 1GB     | 60.85                         |      | Certified |
| HP Workstation xw6000                  | P4 2.4GHz. Xeon            | 1 | ATI FireGL X1 AGP Pro      | Win XP Pro SP1   | .768 GB | 7.96.2.1-031211a-012949C-ATI  | 1, 2 | Certified |
| HP Workstation xw6000                  | P4 2.4GHz. Xeon            | 1 | Nvidia Quadro4 380         | Win XP Pro SP1   | .768 GB | 60.85                         |      | Certified |
| HP Workstation xw6000                  | P4 2.8GHz. Xeon            | 2 | ATI FireGL X1 AGP Pro      | Win XP Pro SP1   | 2GB     | 7.96.2.1-031211a-012949C-ATI  | 1, 2 | Certified |
| HP Workstation xw6000                  | P4 2.8GHz. Xeon            | 2 | Nvidia Quadro4 380         | Win XP Pro SP1   | 2GB     | 60.85                         |      | Certified |
| HP Workstation xw6000                  | P4 2.8GHz. Xeon            | 2 | Nvidia Quadro4 980         | Win XP Pro SP1   | 2GB     | 60.85                         |      | Certified |
| HP Workstation xw6200                  | P4 3.4GHz. Xeon            | 2 | ATI FireGL V3200 PCIe      | Win XP Pro SP1   | .75GB   | 8.023.1-040624a-016505E-ATI   | 1, 2 | Certified |
| HP Workstation xw6200                  | P4 3.4GHz. Xeon            | 2 | Nvidia Quadro FX 1300 PCIE | Win XP Pro SP1   | .75GB   | 60.85                         |      | Certified |
| HP Workstation xw6200                  | P4 3.4GHz. Xeon            | 2 | Nvidia Quadro FX 330 PCIE  | Win XP Pro SP1   | .75GB   | 60.85                         |      | Certified |
| HP Workstation xw6200                  | P4 3.4GHz. Xeon            | 2 | Nvidia Quadro FX 3400 PCIE | Win XP Pro SP1   | .75GB   | 60.85                         |      | Certified |
| HP Workstation xw8000                  | P4 3.0GHz Xeon             | 2 | Nvidia Quadro4 980 XGL     | Win XP Pro SP1   | 3.3 GB  | 60.85                         |      | Certified |
| HP Workstation xw8200                  | P4 3.4 GHz Xeon            | 2 | ATI FireGL V3100 PCIe      | Win XP Pro SP1   | 1 GB    | 8.043.1.1-040907a1-017986C    | 1,2  | Certified |
| HP Workstation xw8200                  | P4 3.4 GHz Xeon            | 2 | Nvidia Quadro FX 1300      | Win XP Pro SP1   | 1 GB    | 61.76                         |      | Certified |
| HP Workstation xw8200                  | P4 3.4 GHz Xeon            | 2 | Nvidia Quadro FX 330       | Win XP Pro SP1   | 1 GB    | 61.76                         |      | Certified |
| HP Workstation xw8200                  | P4 3.4 GHz Xeon            | 2 | Nvidia Quadro FX 3400      | Win XP Pro SP1   | 1 GB    | 61.76                         |      | Certified |
| HP/Compaq Evo mobile workstation n800w | Mobil P4 2GHz.             | 1 | ATI FireGL 9000            | Win 2000 Pro SP4 | .5 GB   | 7.96.2.1-031211a-012945C-HP   | 1, 2 | Certified |
| HP/Compaq Evo W6000                    | P4 2.4 GHz. Xeon           | 1 | Nvidia Quadro2 Pro         | Win XP Pro SP1   | 1 GB    | 60.85                         |      | Certified |
| IBM A Pro Model 6224 37z               | AMD 2.19 GHz. Opteron (2x) | 2 | NVIDIA Quadro FX 1100      | Win XP Pro SP1   | 3 GB    | 60.85                         | 5    | Certified |
| IBM A31p Mobile Workstation            | P4-M 1.7GHz.               | 1 | ATI Mobility FireGL 7800   | Win 2000 Pro SP4 | 1 GB    | 7.983-040210M-01321C-IBM      | 1, 2 | Certified |
| IBM Mpro 6225-24Z                      | Intel P4 (64) 3.6GHz.      | 1 | ATI FireGL V3100           | Win XP Pro SP2   | 2 GB    | 8.062.040929a-018529C ATI     | 5    | Certified |
| IBM Mpro 6225-24Z                      | Intel P4 (64) 3.6GHz.      | 1 | ATI FireGL V3200           | Win XP Pro SP2   | 2 GB    | 8.062.040929a-018529C ATI     | 5    | Certified |
| IBM Mpro 6225-24Z                      | Intel P4 (64) 3.6GHz.      | 1 | ATI FireGL V5100           | Win XP Pro SP2   | 2 GB    | 8.062.040929a-018529C ATI     | 5    | Certified |
| IBM Mpro 6225-24Z                      | Intel P4 (64) 3.6GHz.      | 1 | Nvidia FX 1300             | Win XP Pro SP2   | 2 GB    | 61.82                         | 5    | Certified |
| IBM Mpro 6225-24Z                      | Intel P4 (64) 3.6GHz.      | 1 | Nvidia FX 3400             | Win XP Pro SP2   | 2 GB    | 61.82                         | 5    | Certified |
| IBM Mpro 6230                          | P4 3.0GHz.                 | 1 | Nvidia FX 3000             | Win XP Pro SP1   | 1 GB    | 60.85                         |      | Certified |
| IBM Mpro 6230                          | P4 3.0GHz.                 | 1 | Nvidia Quadro4 980 XGL     | Win XP Pro SP1   | 1 GB    | 60.85                         |      | Certified |
| IBM R50p Mobile Workstation            | P4 M 1.7 GHz.              | 1 | ATI Mobility FireGL T2     | Win XP Pro SP1   | .5 GB   | 7.96.2.1-031211a-01289E IBM   | 1, 2 | Certified |
| IBM T40p Mobile Workstation            | P4 M 1.6 GHz               | 1 | ATI Mobility FireGL 9000   | Win XP Pro SP1   | 1 GB    | 7.96.2.1-031211a-012948C IBM  | 1, 2 | Certified |
| IBM T41p Mobile Workstation            | P4 M 1.7 GHz.              | 1 | ATI Mobility FireGL T2     | Win XP Pro SP1   | 1 GB    | 7.96.2.1-031211a-0012948C IBM | 1, 2 | Certified |
| IBM T42p Mobile Workstation            | P4 M 1.8 GHz.              | 1 | ATI Mobility FireGL T2     | Win XP Pro SP1   | 2 GB    | 7.983-040210m-013821C IBM     | 1, 2 | Certified |

|                           |                            |   |                        |                |      |                              |         |           |
|---------------------------|----------------------------|---|------------------------|----------------|------|------------------------------|---------|-----------|
| Nisku AutoComp 64, Magnum | AMD 2.19 GHz. Opteron (2x) | 2 | ATI FireGL Z1          | Win XP Pro SP1 | 2 GB | 7.96.2.1-031211a-012949C-ATI | 1, 2, 5 | Certified |
| Nisku AutoComp 64, Magnum | AMD 2.19 GHz. Opteron (2x) | 2 | Nvidia Quadro FX 3000  | Win XP Pro SP1 | 2 GB | 60.85                        | 5       | Certified |
| TRI-STAR StarStation      | P4 Extreme 3.2 GHz         | 2 | ATI Fire GL X2         | Win XP Pro SP1 | 2 GB | 7.96.2.1-031211a-012949C-ATI | 1, 2, 4 | Certified |
| TRI-STAR StarStation      | P4 Extreme 3.2 GHz         | 2 | Nvidia Quadro FX 1100  | Win XP Pro SP1 | 2 GB | 60.85                        | 4       | Certified |
| TRI-STAR StarStation      | P4 Extreme 3.2 GHz         | 2 | Nvidia Quadro FX 500   | Win XP Pro SP1 | 2 GB | 60.85                        | 4       | Certified |
| TRI-STAR StarStation      | P4 Extreme 3.2 GHz         | 2 | Nvidia Quadro4 580XGL  | Win XP Pro SP1 | 2 GB | 60.85                        | 4       | Certified |
| TRI-STAR StarStation      | P4 Extreme 3.2 GHz         | 2 | Nvidia Quadro4 980 XGL | Win XP Pro SP1 | 2 GB | 60.85                        | 4       | Certified |

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| Test Description  |  |
|---|--|
| <p><u>System configuration:</u> At the time the test was run, each system had the OS and MS office as up to date as possible. Windows 2000 Pro and XP Pro were each optimized for speed. In Explorer and the display properties, all "fancy graphics effects" were disabled. Windows XP performance in "My computer" properties were set to Performance. Systems were unplugged from the network during the running of each test.</p>   |  |
| Data Sets   | The test consists of 7 datasets. Each is designed to represent a different kind of product modeled with Inventor. They are medium-small datasets to keep the total test time within reason.  |
| Part Rebuild Time (sec.)  | Open a part, Rebuild, and save. All parts for a given data set are done in one Autodesk Inventor Session.  |
| Assembly Update Time (sec.)   | Open each assembly, accept updates, Center it, and save. Each assembly from a given dataset is done in the same Autodesk Inventor Session.   |
| IDW Creation Time (sec.)  | Open assembly, Open a new drawing, As quickly as possible, create a view of the assembly, then create 2 section views. Wait for all views to become precise, then save the drawing. Next reopen the drawing and close it again. Each drawing from a given dataset is made in the same Autodesk Inventor session. |
| Test Setup  |  |
| Anti-virus software disabled, IE 6, Office 2000 or 2002 (XP) Installed and registered.  |  |
| The data used in this test was selected to keep "working set" memory requirements of Autodesk Inventor below 512 MB.  |  |
| All available updates to the operating system, MS Office 2002 (XP) , and Internet Explorer 6 as of 2/1/02 were applied unless otherwise noted. Driver updates to network cards and SCSI controllers were also applied when recommended by MS Update. DirectX 8 updates were not applied for this test, but some systems already had it installed. Windows XP was changed to the Performance configuration.  |  |
| Notebooks tested on AC Power, using built-in graphics card and display. Power settings were adjusted such that the CPU was running at maximum speed.  |  |
| Notes:  |  |
| 1   | If the Configuration tab is available, it must be set for "Autodesk Inventor". The HydraVision desktop management software was not installed for this test.  |
| 2   | See notes on the available drivers for this card.<br>This driver may not be the best one to use.   |
| 3   | Increased security requires that Norton Antivirus be kept running. It is configured for minimal impact by excluding the Inventor data files from real-time scanning. Tests without this note were run with the anti-virus software disabled.   |
| 4   | This system has 2 10,000 RPM Serial ATA drives in a striped RAID configuration with a hardware controller.   |
| 5   | This system has 64-bit processor(s), running a 32-bit operating system.  |
| Legal Note  |  |
| <p>The purpose of this test is to certify the correctness of Autodesk Inventor operation on a given platform. Execution time of the test is given for information purposes only.</p> <p>The information provided herein is being provided as a service to Autodesk's customers, and any other use of the Information, or use by anyone other than Autodesk customers or Autodesk Authorized Resellers, is strictly prohibited. To insure that customers receive only current information, and because any information contained on this site is dynamic and subject to change at any time, Autodesk Authorized Resellers and other sources may point to this website but may not download and print for the purpose of copying, reproducing, posting, distributing, publishing, or promulgating any information found on the site without previous authorization from the Autodesk Inventor Team. Autodesk has tested only the configuration combinations specifically identified herein; no representations as to the relative performance of other possible configurations may be inferred. Autodesk disclaims all express or implied warranties or other contractual commitments, which may be implied as a result of the publication and dissemination of this Information.</p> <p>Further inquiries concerning the workstation performance should be addressed to the appropriate workstation manufacturer/distributor. Further inquiries concerning the Autodesk Inventor (TM) software program should be addressed to Autodesk Customer Support.</p> |  |