

System Requirements for Discovery Studio 2.5.5

The following sections cover the system requirements for Discovery Studio:

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Supported Operating Systems

Operating System	Architecture	32 bit client	32 bit server	64 bit server*
Microsoft® Windows XP Professional, SP2 and SP3	32 bit	+	+	
Microsoft Windows 2003 Server, SP1 and SP2	32 bit		+	
Microsoft Windows Vista, Business and Enterprise Editions, SP1	32 bit	+	+	
Microsoft Windows Server 2008**	64 bit		+	
Red Hat® Enterprise Linux® 4.0, Updates 4-7	32 bit	+	+	
Red Hat® Enterprise Linux® 4.0, Updates 4-7**	64 bit	+	+	
Red Hat Enterprise Linux 5, Retail, Updates 1-2	64 bit	+	+	+
SUSE® Linux Enterprise 10 (SP2)**	64 bit	+	+	

Note the following:

* To install the 64 bit Pipeline Pilot server, use the Pipeline Pilot installer.

** Although you can install the 64 bit server on these operating systems, the 32 bit binaries are used. 64 bit binaries are supported on Red Hat Enterprise Linux 5.

Processor and RAM Requirements

- **Processor:** An Intel-compatible ≥ 2 GHz is required.

- **RAM:** A minimum of 2 GB of memory for Discovery Studio Client and 2 GB for the Pipeline Pilot Server. Ideally, a total of 4 GB should be available if the client and server are installed on the same machine.

Disk Space Requirements

Basic Installation

Module	Windows	32 bit Linux	64 bit Linux
Discovery Studio Client	500 MB	900 MB	N/A
Pipeline Pilot with DS Component Collections	2.8 GB	3.5 GB	4.4 GB
License Pack	105 MB	200 MB	N/A
Total	3.4 GB	4.6 GB	4.4 GB

Additional Modules

Additional space is required if you plan to install the standalone applications separately and/or need to install Blast and Modeler databases for Protein Modeling and Sequence Analysis.

Module	Windows	32 bit Linux	64 bit Linux
Standalone Applications	500 MB	800 MB	N/A
BLAST Database	8.7 GB	8.7 GB	N/A
Modeler Database	23.1 GB	23.1 GB	N/A

Supported Graphics Cards

The following graphics cards are supported. Cards that are certified have been validated with Discovery Studio. Non-certified cards are expected to work with Discovery Studio, but have not been tested. See [Supported Graphics Card Drivers](#) below for a list of supported drivers.

Note: Some ATI drivers are known to have problems when DS is run as an administrator (root).

Graphics Card	Performance	Certified	Stereo Support
ATI FireGL V3600	basic	+	
ATI FireGL V5600	mod	+	
ATI FireGL V7600	high	+	+
ATI FireGL V7700	high		+
ATI FireGL V8600	ultra high		+
ATI FirePro V3700	basic	+	

ATI FirePro V3750	basic		
ATI FirePro V5700	mid	+	
ATI FirePro V7750	high		
ATI FirePro V8700	high	+	+
NVIDIA Quadro FX370	basic		
NVIDIA Quadro FX380	basic		
NVIDIA Quadro FX570	basic	+	
NVIDIA Quadro FX580	basic	+	
NVIDIA Quadro FX1700	mid		
NVIDIA Quadro FX1800	mid	+	
NVIDIA Quadro FX3700	high		
NVIDIA Quadro FX3800	high	+	+
NVIDIA Quadro FX4600	high	+	+
NVIDIA Quadro FX4700	high		+
NVIDIA Quadro FX4800	high		+
NVIDIA Quadro FX5600	ultra high		+
NVIDIA Quadro FX5800	ultra high		+

* Requires the version with a minimum three pin DIN connector.

Supported Graphics Card Drivers

Make	Windows XP	Windows Vista	32 bit Linux	64 bit Linux
ATI	8.583	8.583	8.583	8.583
NVIDIA	182.46	182.46	185.18.36	185.18.36

Supported Grid Systems

If you are planning to install on a grid, Pipeline Pilot 7.5 supports the following grid system versions:

- SGE 6.1
- PBS Pro 9.2
- Platform LSF 7.00 Update 3

Additional Software Requirements

Pipeline Pilot

Discovery Studio requires Pipeline Pilot 7.5 with Collection Update 4 (CU4). If an existing version of Pipeline Pilot Enterprise Server 7.5 is installed, you will be prompted to update to this version during Discovery Studio installation. If you do not have an existing installation of Pipeline Pilot Enterprise Server, the required version will be installed automatically.

BLAST and profile databases

The BLAST Search (DS server) and PSI-BLAST Search protocols require a separately installed BLAST database. Scan Sequence Profiles requires a separately installed profile database. For details, see [Installing databases for BLAST Search \(DS server\) and PSI-BLAST Search](#) and [Installing and configuring a profile database](#).

GNOME Desktop (Linux)

The Discovery Studio Client is optimized for the GNOME Desktop. We recommend that you install and configure this software, which is available on your Linux distribution media. Note that KDE Desktop is also supported.

System Libraries (Linux)

Certain system libraries may be required for the correct operation of Discovery Studio. To automatically detect which libraries may be required for your system, run the `check_system.sh` script, available on the Discovery Studio distribution. For details, see [Required System Libraries](#).