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## System Requirements for Abaqus 6.12 Products

The topics below provide the system requirements for each Abaqus platform. To view the range of Abaqus system requirements on a particular platform, click to expand the information for that topic. For each platform, the system requirements are presented in four tables, as follows:

**General Requirements:** The minimum requirements applicable for all Abaqus products and features.

**Additional Requirements:** Extra requirements needed for specific Abaqus products and features.

**Requirements to View Online Documentation**

**Other Platform Notes**

More detailed explanations of the table contents and terminology are provided after the tables.

Windows/ x86-32

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Windows/ x86-64

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### General Requirements

Product/Feature	Requirement	Specification
Applicable for all Abaqus products supported on this platform	Processor	x86-64
Applicable for all Abaqus products supported on this platform	OS Level <sup>2</sup>	<ul style="list-style-type: none"><li>Windows Server 2008 R2</li><li>Windows HPC Server 2008</li><li>Windows Vista<sup>1</sup></li><li>Windows 7</li></ul>

#### Notes:

<sup>1</sup> Although some Vista editions have not undergone formal qualification testing, Vista Home Basic, Home Premium, Business and Ultimate editions are all considered compatible with Abaqus 6.12 and are supported. See the [Test Configurations](#) web page for tested Vista editions.

<sup>2</sup> Microsoft Visual C++ 2005 SP1 and 2008 SP1 runtime libraries are required required and installed during the Abaqus installation. Both 32-bit & 64-bit runtime libraries are required to perform some translator functions. See [Microsoft Visual C++ Runtime Requirements for Windows](#) for more information.

### Additional Requirements

Product/Feature	Requirement	Specification
Abaqus/CAE, Abaqus/Viewer	Graphics	<a href="#">Abaqus 6.12 Graphics Devices</a>
	Optional GPU	<ul style="list-style-type: none"><li>Nvidia Tesla C2050</li><li>Nvidia Tesla C2070</li><li>Quadro 4000<sup>5</sup></li><li>Nvidia Quadro 6000</li></ul>

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## Status Reports

Building post processing applications (Abaqus make utility with C++)	C++ Compiler	<ul style="list-style-type: none"><li>• Microsoft Visual C++ 2008 SP1<sup>6</sup></li><li>• Microsoft Visual C++ 2010<sup>7</sup></li></ul>
User Subroutines and building post processing applications with Fortran (Abaqus make utility with Fortran and Abaqus user subroutines)	Fortran Compiler <sup>8</sup>	<ul style="list-style-type: none"><li>• Intel Visual Fortran 10.1</li><li>• Intel Visual Fortran 11.1</li></ul>
Abaqus/Standard/Explicit/CFD MPI-based parallel execution	Library	MS-MPI 2.1
Abaqus/Standard & Abaqus/Explicit MPI-based Distributed Memory Parallel execution	Interconnect	<ul style="list-style-type: none"><li>• Gigabit Ethernet<sup>10</sup></li><li>• InfiniBand<sup>9</sup></li></ul>
FSI Co-simulation using MpCCI	Partner Product	MpCCI version 4.2 <sup>11</sup>
Installation	Distribution Media	DVD-ROM
<b>Notes:</b> <sup>4</sup> Tested with Nvidia driver version 258.96 <sup>5</sup> Tested with Nvidia driver version 275.xx <sup>6</sup> Visual C++ 2008 is also known as Visual C++ 9.0 <sup>7</sup> Visual C++ 2010 is also known as Visual C++ 10.0 <sup>8</sup> Intel Visual Fortran may require additional software pre-requisites. See the Intel Visual Fortran release notes and <a href="#">Intel Visual Fortran Pre-requisites</a> for more information. <sup>9</sup> Distributed with Abaqus products <sup>10</sup> See <a href="#">Support for Distributed Memory Parallel Analyses on Windows Platforms</a> for more information on availability of DMP on Windows/X86-64 <sup>11</sup> <a href="#">Fraunhofer SCAI</a>		

## Requirements to View Online Documentation

Product/Feature	Requirement	Specification
Abaqus HTML documentation	Internet Browser <sup>12</sup>	<ul style="list-style-type: none"><li>• Firefox 3.x</li><li>• Internet Explorer 8, 9</li></ul>
Abaqus PDF documentation	PDF Viewer <sup>13</sup>	Adobe Reader 9.0, 10.0

**Notes:**<sup>12</sup> Later versions of these web browsers are expected to offer acceptable performance.<sup>13</sup> Later versions of these PDF Readers are expected to offer better performance.

## Other Platform Notes

Product/Feature	Requirement	Specification
All supported products	Maximum memory accessible	This platform supports 64-bit addressing, which enables memory usage in excess of 2 GB

Linux/ x86-64



## Explanations of Table Contents and Terminology

System requirements include hardware, operating system versions, and any other tools required to run Abaqus.

Where more than one specification is listed for a given requirement, select one from the list. The Abaqus System Requirements web pages define the range of supported configurations. The intent is to support any combination of specifications within the defined range. Minor updates to operating systems, compilers and other system requirements are usually compatible. Earlier versions of prerequisites are generally not compatible, and thus are not supported. Any exceptions identified which affect compatibility of minor updates will be noted here.

**General Requirements** are the minimum system requirements which are necessary to utilize any Abaqus product or feature supported on this platform; however the minimum requirements are not sufficient to support all Abaqus products or capabilities. **Additional Requirements**, beyond the General Requirements, are necessary for specific Abaqus products and features. Additional Requirements must be met only if you want to use the specific Abaqus product or feature associated with the requirement.

**Final configurations depend on successful testing outcomes. Supported platforms and configurations are subject to change without notice.**