



System Requirements



Simio
Forward Thinking

desktop requirements

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Hardware & Software Requirements

	Minimum	Recommended
Operating System	Any currently supported Microsoft® Windows 10/11 64-bit (with .NET Framework Version 4.7.2 or greater)	
Supporting Software	Microsoft Excel	Microsoft Excel SQL Server Express
Processor (CPU)	Intel Core i5 4+ cores 2.0+ GHz	Intel Core i7 or i9 6+ cores 3.0+ GHz with Turbo Boost
Memory (RAM)	8 or 16GB	32 or 64GB
Hard Drive Space	250GB SSD	512GB or 1TB NVMe
Graphics (GPU)	128 MB Integrated Graphics compatible with DirectX 11	1+ GB Discrete Graphics Card compatible with DirectX 11
Display*	Full HD (1920x1080) Built in or 17"+ external display	2K (2560x1440) 23"+ external display

Notes

The Simio UI offers touch screen support which requires the drivers provided and supported by your hardware.

For cloud based virtual machines running Simio desktop, choose a VM with similar specifications outlined above. **Not only can you use a second monitor for displaying Help and documentation, but most Simio windows can be undocked and moved to a second screen. For example, you can display the Trace or Search window on the second screen, or you can simply have the animation span two screens.*



TECHNICAL SUPPORT:

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portal requirements

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Hardware & Software Requirements

	On-Prem	Cloud (AWS, Azure)
Operating System	Any currently supported Microsoft® Windows Server edition (with .NET Framework Version 4.7.2 & IIS 10 or greater)	
Supporting Software	SQL Server Standard 2017+ (SQL 2019 Express <10GB databases) SQL Server 2019 (V15.x) minimum Cumulative Update 15.0.4322.2 (August 2023) SQL Server 2022 (V16.x) minimum Cumulative Update 16.0.4075.1 (September 2023)	
Processor (CPU)	Intel Xeon CPU 2.5+ GHz with Turbo Boost 6+ cores	X86 Architecture vCPU 2.5+ GHz per vCPU 4+ vCPU*
Memory (RAM)	64GB for planning use cases 128GB for experiment use cases	8GB per vCPU min, 16GB per vCPU for larger models
Hard Drive Space	Primary - 250GB SSD Secondary - 512GB or 1TB SSD or NVMe (SQL Database on Secondary)	

For vCPU needs, portal administrators and users need to align on the performance targets to set vCPU count. For scheduling purposes, there should be 1 vCPU for each planner or scheduler that would be generating plans to ensure portal is always available for plan creation. For experiment-based use cases, the model should be run on desktop to estimate the total run time on one vCPU. This time (model run time) can then be used along with the total expected scenarios for each experiment and the maximum allowable experiment run time to calculate the number of cores needed.

For a large model with a model run time of 1 hour, 48 scenarios, 10 replications each would take the following times:

vCPU	Scenarios	Replications Per Scenario	Total Replications	Total Processing Time (hours)	Total Run Hours for All Scenarios
2	48	10	480	480	240
4	48	10	480	480	120
6	48	10	480	480	80
8	48	10	480	480	60
10	48	10	480	480	48
12	48	10	480	480	40
16	48	10	480	480	30
20	48	10	480	480	24
24	48	10	480	480	20

portal requirements

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Portal Components & Installation

Simio Portal on-premises can run on local hardware, but it is also capable of running in local cloud configurations.

Simio Portal comprises three main components:

1. A web UI (IIS),
2. The Simio Simulation Engine, and
3. An embedded database that is a combination of relational and blob storage.

The standard configuration is that all three components are located on a single machine, which can be either a real or virtual machine (VM) within the client network. When it is a VM, that VM can be in a cloud environment such as Azure, AWS, or Google.

The Simio Portal Pre-Installation Checklist outlines how the components of the Simio Portal should be set up and configured and what IT permissions are required for installation. Please contact your Simio representative to get access to the Simio Portal Pre-Installation Checklist.



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other platforms

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Mac and Windows Touch Screen Support

Note: Many Simio users run Simio on their Macs. Like other popular designed-for-Windows applications, the first step is to provide a Windows instance on your Mac.

We recommend you read our Simio for Mac Reference Manual which can be found at <https://cdn.simio.com/SimioLicenses/MacInstructions.pdf> for more information.



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