ArcGIS Engine Runtime 9.0.1 System Requirements

This PDF contains system requirements information, including hardware requirements, best performance configurations, and limitations, for ArcGIS Engine Runtime 9.0.1.

- Linux-Intel Red Hat Enterprise Linux AS/ES/WS 3.0
- Linux-Intel Red Hat Enterprise Server 9
- Sun Solaris 8 (SPARC)
- Sun Solaris 9 (SPARC)

### ArcGIS Engine Runtime 9.0.1 on Linux-Intel Red Hat Enterprise Linux AS/ES/WS 3.0

<table>
<thead>
<tr>
<th><strong>Product:</strong></th>
<th>ArcGIS Engine Runtime 9.0.1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Platform:</strong></td>
<td>Linux-Intel</td>
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<tr>
<td><strong>Operating System:</strong></td>
<td>Red Hat Enterprise Linux AS/ES/WS 3.0</td>
</tr>
<tr>
<td><strong>Service Packs/Patches:</strong></td>
<td>Update 2 or higher</td>
</tr>
<tr>
<td><strong>Shipping/Release Date:</strong></td>
<td>January 10, 2005</td>
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</tbody>
</table>

**Hardware Requirements**

**CPU Speed:**
800 MHz minimum - 1.0 GHz recommended or higher

**Memory/RAM:**
512 MB minimum, 1 GB recommended

**Display Properties:**
24 bit color depth

**Screen Resolution:**
1024 x 768 recommended or higher at Normal size (96dpi)

**Swap Space:**
256 MB minimum, 512 MB recommended
(Swap Space is minimum required for a single user.)

**Window System:**
X-Windows/Common Desktop Environment

**Disk Space:**
Typical - 660 MB, Complete - 698 GB

**Architecture:**
x86 architecture (32-bit)

**Notes:**

**Additional Requirements:**
- Red Hat Linux AS/ES/WS 3.0 Kernel version 2.4.21 or higher
- X-Windows/Common Desktop Environment
- J2SDK 1.4.2_05 for Java development
- OpenGL XFree86-Mesa-libGL, version 4.2.0-8 (Red Hat distribution contains the XFree86 package which emulates OpenGL.)
- GNU C Library (glibc) version 2.3.2

**Video Drivers:**
- Mesa is the supported video driver.
- 24-bit color depth enabled
- Using hardware based graphics accelerators can improve dynamic 2D and 3D rendering performance, however all video cards may not work.
- If using hardware accelerators for ArcGIS Globecontrol and ArcReader 3D, make sure your graphics card is compliant with at minimum OpenGL 1.3, and be sure to use the latest available driver.

**Best Performance Configuration**

**System Design Strategies**
Recommended platform sizing and system configuration strategies are provided in the System Design Strategies technical reference document available at: [System Design Strategies](#).

**Limitations**
Platform: Limitations for Red Hat Linux AS/ES/WS 3.0
- not supported if the operating system (binary) has been modified
- not supported on a developer's release of the operating system
- Linux patches from RHEL AS/ES/WS will be supported as long as the patches are from Red Hat without any modification to the latest kernel/glibc version.
**ArcGIS Engine Runtime 9.0.1 on Linux-Intel SUSE Linux Enterprise Server 9**

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<td>Platform:</td>
<td>Linux-Inel</td>
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<td>SUSE Linux Enterprise Server 9</td>
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**Hardware Requirements**

**Processor:**
800 MHz minimum - 1.0 GHz recommended or higher

**Memory/RAM:**
512 MB minimum, 1 GB recommended

**Display Properties:**
24 bit color depth

**Screen Resolution:**
1024 x 768 recommended or higher at Normal size (96dpi)

**Swap Space:**
256 MB minimum, 512 MB recommended
(Swap Space is minimum required for a single user.)

**Window System:**
X-Windows/Common Desktop Environment

**Disk Space:**
Typical - 660 MB, Complete - 698 GB

**Architecture:**
x86 architecture (32-bit)

**Notes:**

**Additional Requirements:**
- SUSE 9 Kernel version 2.6.5 or higher
- X-Windows/Common Desktop Environment
- 24-bit color depth enabled
- J2SDK 1.4.2_05 for Java development
- OpenGL XFree86-Mesa version 4.3.99
- GNU C Library (glibc) version 2.3.3
- Xvfb (This is a hardware-independent Xserver, which can be installed from XFree86-Xvfb-4.3.99.902-43.22.i586.rpm that comes with SuSE 9 install CD.)

Best Performance Configuration

System Design Strategies
Recommended platform sizing and system configuration strategies are provided in the System Design Strategies technical reference document available at: System Design Strategies.

Limitations

Platform: Limitations for SUSE Linux Enterprise Server 9
- not supported if the operating system (binary) has been modified
- not supported on a developer's release of an operating system
- The linux patches from SUSE will be supported as long as the patches are from SUSE without any modification to the latest kernel/glibc version.
**ArcGIS Engine Runtime 9.0.1 on Sun Solaris 8 (SPARC)**

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<tr>
<td>Platform:</td>
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<tr>
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<td>Solaris 8 (SPARC)</td>
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<tr>
<td>Service Packs/Patches:</td>
<td>(Service pack details under notes and limitations.)</td>
</tr>
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**Hardware Requirements**

**CPU Speed:**
400 MHz minimum

**Processor:**
UltraSPARC II, III, IIe minimum

**Memory/RAM:**
512 MB minimum, 1 GB recommended

**Display Properties:**
24 bit color depth

**Screen Resolution:**
1024 x 768 recommended or higher at Normal size (96dpi)

**Window System:**
X-Window/Common Desktop Environment

**Disk Space:**
Typical - 712 MB Complete - 750 MB

**Architecture:**
Sun Solaris version 8

**Notes:**

The following patches are recommended for Solaris 8 installs:
108131-17(or later) OpenGL libraries bug fixes (32-bit)
108434-13 Shared library patch for C++ run-time
108576-26 Expert3D IFB graphics patch (only for Expert3D)
108606-31 M64 graphics Patch (only for M64 Graphics)
108652-83 X11 6.4.1: Xsun patch
109147-21 (or higher) Linker patch
109147-27 Correct dynamic load and unload of shared libraries

The following patches are recommended for Forte/Developer Kit installs:
111678-07 Patch for Forte Developer 6 update 2, C++ F77, F95
111685-05 Patch for Forte Developer 6 update 2 C++ compiler
109607-01 /usr/include/iso/stdlib_iso.h patch

Additional Requirements:
- X-Windows/Common Desktop Environment
- 24-bit capable graphics accelerator
- OpenGL version 1.2 or 1.2.1 runtime environment
- Forte 6 (Sun Workshop 6 Update 2) for C++ development
- J2SDK 1.4.2_05 for Java development

Best Performance Configuration

System Design Strategies
Recommended platform sizing and system configuration strategies are provided in the System Design Strategies technical reference document available at: System Design Strategies.

Limitations

Platform: Limitations for Solaris 8 SunOS 5.8
The following patch revisions WILL NOT work with the C++ API:
109147-17
109147-18
109147-19
109147-20
# ArcGIS Engine Runtime 9.0.1 on Sun Solaris 9 (SPARC)

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## Hardware Requirements

**CPU Speed:**
400 MHz minimum

**Processor:**
UltraSPARC II, III, IIe minimum

**Memory/RAM:**
512 MB minimum, 1 GB recommended

**Display Properties:**
24 bit color depth

**Screen Resolution:**
1024 x 768 recommended or higher at Normal size (96dpi)

**Window System:**
X-Windows/Common Desktop Environment

**Disk Space:**
Typical - 712 MB Complete - 750 MB

**Architecture:**
Sun Solaris verion 9

**Notes:**

The following patches are recommended for Solaris 9 installs:
Solaris Maintenance Update 3
112785-43 X11 6.4.1: Xsun patch
**Additional Requirements:**
- X-Windows/Common Desktop Environment
- 24-bit capable graphics accelerator
- OpenGL version 1.2 or 1.2.1 runtime environment
- Forte 6 (Sun Workshop 6 Update 2) for C++ development
- J2SDK 1.4.2_05 for Java development

**Best Performance Configuration**

**System Design Strategies**

Recommended platform sizing and system configuration strategies are provided in the System Design Strategies technical reference document available at: [System Design Strategies](#).