ArcGIS Engine Operating Systems Requirements and Limitations

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Red Hat Linux 4.0

- ArcGIS Engine-related products are only supported on Linux x86 on CPUs that adhere to the x86 architecture with supported Linux releases.
- When running in a 64-bit environment, ArcGIS Engine-related products must be run as 32-bit applications.
- It is a requirement that the OS (binary) has not been modified. ESRI does not provide any support if products are installed on Developer's Release of an Operating System.
- The Linux patches from RHEL 4.0 will be supported as long as the patches are from Red Hat without any modification to the latest kernel/glibc version.
- **Red Hat Linux AS/ES/WS 4.0 Kernel version 2.6.9 or higher is required with the following software packages:**
    - From Desktops Group
        - X Window System package group (Standard Packages sufficient, including the minimum required OpenGL version of xorg-x11-Mesa-libGL.)
    - From the Development Package Group:
        - Development Tools package group with gcc-g77 package from Extra Packages section. (The required library libg2c.so.0 is owned by the libf2c package; the libf2c package is provided by the gcc-g77 package.)
        - Legacy Software Development package group with compat-openldap from Optional Packages. (Standard Packages sufficient.)
- Additionally, the following software packages are required (package version must be at level stated or higher):
    - compat-openldap-2.1.30-2
    - openssl-0.9.7a-43
    - GNU C Library (glibc) 2.3.4-2 or higher
    - OpenGL: minimum required OpenGL version of xorg-x11-Mesa-libGLU
- For 64 bit OS support: The 32 bit versions of the packages above must be installed prior to installing ArcGIS Engine Runtime.

Red Hat Linux 5.0

- ArcGIS Engine-related products are only supported on Linux x86 on CPUs that adhere to the x86 architecture with supported Linux releases.
- When running in a 64-bit environment, ArcGIS Engine-related products must be run as 32-bit applications.
- It is a requirement that the OS (binary) has not been modified. ESRI does not provide any support if products are installed on Developer's Release of an Operating System.
- The Linux patches from RHEL 5.0 will be supported as long as the patches are from Red Hat without any modification to the latest kernel/glibc version.
- **NIS Client Limitation:** ArcGIS installation hangs while registering libmwxml.so from a network client on Linux RedHat Version 5. See [KB37541](#) for more details.

- **Red Hat Linux AS/ES/WS 5.0 Kernel version 2.6.18 or higher is required with the following software packages:**
  - From the Development Package Group:
    - Development Tools package group with gcc-g77 package from Extra Packages section. (The required library libg2c.so.0 is owned by the libf2c package; the libf2c package is provided by the gcc-g77 package.)
    - The Legacy Software Development package group
  - From the Base System Group:
    - Legacy Software Development package group with compat-openldap from Optional Packages
    - X Window System package group (Standard Packages sufficient, including the minimum required OpenGL version of mesa-libGL.)
- Additionally, the following software packages are required (package version must be at level stated or higher):
  - compat-libf2c-34
  - compat-libstdc++-33
  - compat-libstdc++-296
  - GNU C Library (glibc) 2.3.4-2 or higher
  - libXp
  - mesa-libGL
  - mesa-libGLU
  - openldap
  - openssl
  - OpenGL: minimum required OpenGL version of mesa-libGLU
- For 64 bit OS support: The 32 bit versions of the packages above must be installed prior to installing ArcGIS Engine Runtime.

SUSE Linux 10

- ArcGIS Engine-related products on Linux are only supported on Linux x86 on CPUs that adhere to the x86 architecture with supported Linux releases.
- When running in a 64-bit environment, ArcGIS Engine-related products must be run as 32-bit applications.
- It is a requirement that the OS (binary) has not been modified. ESRI does not provide any support if products are installed on Developer's Release of an Operating System.

- The Linux patches for SUSE Linux SLES 10 (SLES is the Enterprise Server version of SUSE) will be supported as long as they are from SUSE Linux without any modification to the latest kernel/glibc version.
- **SUSE 10 Kernel version 2.6.16 or higher is required with the following software packages:**
    - SUSE LINUX Enterprise Server 10 Service Pack 2 or higher
- From System/Libraries package group
    - compat package (This package does not come distributed with SLES 10 and must be installed from the SUSE Linux Enterprise Server (SLES)10 install CD.)
    - freeglut package
    - Mesa package: minimum required OpenGL version of xorg-x11-Mesa-libGL
- From Development/Languages/Fortran package group
    - compat-g77 package with libg2c33. Obtain the libg2c33 package from here.
- From System/X11/Utilities package group
    - X Window System
- Additionally, the following software packages are required (package version must be at level stated or higher):
    - GNU C Library (glibc) version 2.3.4-2 or higher
    - Patch for Xserver Xvfb: (This is a hardware-independent Xserver, which can be installed from XFree86-Xvfb-4.3.99.902-43.22.i586.rpm, which comes with SUSE Linux Enterprise Server (SLES)10 install CD.)
    - OpenGL: minimum required OpenGL version of xorg-x11-Mesa-libGLU
- For 64 bit OS support: The 32 bit versions of the packages above must be installed prior to installing ArcGIS Engine Runtime.

Sun Solaris

- When running in a 64-bit environment, ArcGIS Engine-related products must be run as 32-bit applications.
- It is a requirement that the OS (binary) has not been modified. ESRI does not provide any support if products are installed on Developer's Release of an Operating System.
- X-Windows/Common Desktop Environment
- **The following patches are recommended for Solaris 9 installs:**
    - Solaris Maintenance Update 3
    - 112785-43 X11 6.4.1: Xsun patch
    - OpenGL: minimum required Open GL version of XFree86-Mesa graphics library
- **The following patches are recommended for Solaris 10 installs:**
    - Solaris Maintenance Update 4 (dated 8/07)
    - 113886-29 patch for OpenGL
    - 113887-29 patch for OpenGL
    - OpenGL: minimum required OpenGL version of xorg-x11-Mesa-libGLU
    - Starting with version 9.3, ArcGIS Engine, ArcReader, and ArcGIS Server takes advantage of Sun's new "extended FILE" facility when running on a Solaris system that supports that functionality. This substantially expands the number of files ArcGIS can have open simultaneously on Solaris. Currently, Sun's extended FILE support is only available on Solaris 10. It should be automatically included

in Solaris 10 releases done after June 2007. To add extended FILE support to earlier Solaris 10 releases, the following patches are recommended:
- o 125100-04 Kernel Update Patch
- o 120473-05 libc nss ldap PAM zfs Patch
- o 125800-01 Fault Manager Patch
- For 64 bit OS support: The 32 bit versions of the packages above must be installed prior to installing ArcGIS Engine Runtime.