

VMware VMotion and
64-bit Virtual Machine Support
for Dell PowerEdge Systems

Compatibility Matrix



Notes and Cautions



NOTE: A NOTE indicates important information that helps you make better use of your computer.



CAUTION: A CAUTION indicates potential damage to hardware or loss of data if instructions are not followed.

© 2008–2012 Dell Inc.

Reproduction of these materials in any manner whatsoever without the written permission of Dell Inc. is strictly forbidden.

Trademarks used in this text: Dell™, the DELL logo, and PowerEdge™ are trademarks of Dell Inc. Intel®, Xeon®, and Core™ are registered trademarks of Intel Corporation in the U.S. and other countries. AMD® is a registered trademark and AMD Opteron™ is a trademark of Advanced Micro Devices, Inc. VMware®, VMotion™, and vSphere® are registered trademarks or trademarks of VMware, Inc. in the United States or other countries.

Contents

Dell-Supported PowerEdge Systems and Processor Compatibility Matrix	5
Dell-Supported Processor Compatibility Matrix	8
Dell-Supported Processor Compatibility Matrix With Enhanced VMotion	11
Important Information	13

This document lists the VMware VMotion compatibility matrices for VMware ESX and VMware ESXi on Dell PowerEdge systems with supported processor models.

Dell-Supported PowerEdge Systems and Processor Compatibility Matrix

Table 1 lists the compatibility matrix for the Dell-supported PowerEdge systems and Intel processors that can enable VMotion.

Table 1. Dell-Supported PowerEdge System and Intel Processor Compatibility Matrix

Dell PowerEdge System	Intel Xeon E5-4600 Series	Intel Xeon E5-2600 Series	Intel Xeon E5-2400 Series	2nd Gen Intel Core i3 Series	Intel Xeon E7- 2800/4800/8800 Product Family	Intel Xeon 7500 Series	Intel Xeon 7400 Series	Intel Xeon 7300 Series	Intel Xeon 7200 Series	Intel Xeon 7100 Series	Intel Xeon 7000 Series	Intel Xeon 6500 Series	Intel Xeon 5600 Series	Intel Xeon 5500 Series	Intel Xeon 5400 Series	Intel Xeon 5300 Series	Intel Xeon 5200 Series	Intel Xeon 5100 Series	Intel Xeon 5000 Series	Intel Xeon E3-1200 V2 Series	Intel Xeon E3-1200 Series	Intel Core i3 Series	Intel Xeon 3400 Series	Intel Xeon 3300 Series	Intel Xeon 800 MHz, 2x2 MB L2	Intel Xeon 800 MHz, 2 MB L2	Intel Xeon 800 MHz, 1 MB L2	Intel Xeon 667 MHz, 1 MB L2, 4 or 8 MB L3	Intel Xeon 667 MHz, 1 MB L2		
T620		✓																													
T710													✓	✓																	
T610													✓	✓																	
T420			✓																												
T410													✓	✓																	
T320			✓																												
T310																								✓	✓						
T300															✓											✓					
T100																										✓					
T110 II				✓																	✓	✓	✓								
T110																							✓	✓							
R820	✓																														
R910					✓	✓																									
NOTE: PowerEdge R910 system does not support Intel Xeon E7-2800 Product Family.																															
R900							✓	✓	✓																						
R810					✓	✓						✓																			
R720xd	✓																														
R720	✓																														
R710													✓	✓																	
R620	✓																														
R610													✓	✓																	
R520			✓																												
R510													✓	✓																	

Dell PowerEdge System	Intel Xeon E5-4600 Series	Intel Xeon E5-2600 Series	Intel Xeon E5-2400 Series	2nd Gen Intel Core i3 Series	Intel Xeon E7- 2800/4800/8800 Product Family	Intel Xeon 7500 Series	Intel Xeon 7400 Series	Intel Xeon 7300 Series	Intel Xeon 7200 Series	Intel Xeon 7100 Series	Intel Xeon 7000 Series	Intel Xeon 6500 Series	Intel Xeon 5600 Series	Intel Xeon 5500 Series	Intel Xeon 5400 Series	Intel Xeon 5300 Series	Intel Xeon 5200 Series	Intel Xeon 5100 Series	Intel Xeon 5000 Series	Intel Xeon E3-1200 V2 Series	Intel Xeon E3-1200 Series	Intel Core i3 Series	Intel Xeon 3400 Series	Intel Xeon 3300 Series	Intel Xeon 800 MHz, 2x2 MB L2	Intel Xeon 800 MHz, 2 MB L2	Intel Xeon 800 MHz, 1 MB L2	Intel Xeon 667 MHz, 1 MB L2, 4 or 8 MB L3	Intel Xeon 667 MHz, 1 MB L2	
R420			✓																											
R410												✓	✓																	
R320			✓																											
R310																								✓	✓					
R300															✓											✓				
R210 II				✓																	✓	✓								
R210																							✓	✓						
R200																										✓				
M910					✓	✓						✓																		
M820	✓																													
M710HD												✓	✓																	
M710												✓	✓																	
M620		✓																												
M610x												✓	✓																	
M610												✓	✓																	
M520			✓																											
M420			✓																											
M600														✓	✓	✓	✓													
2950 III														✓	✓	✓	✓													
2900 III														✓	✓	✓	✓													
1950 III														✓	✓	✓	✓													
2950															✓		✓	✓												
2900															✓		✓	✓												
1955															✓		✓	✓												
1950															✓		✓	✓												
6850										✓	✓																		✓	✓
6800										✓	✓																		✓	✓
2850																										✓	✓	✓		
2800																										✓	✓	✓		
1850																										✓	✓	✓		

Table 2 lists the compatibility matrix for the Dell-supported PowerEdge systems and AMD Opteron processors that can enable VMotion.

Table 2. Dell-Supported PowerEdge System and AMD Processor Compatibility Matrix

Dell PowerEdge System	AMD Opteron 8400 Series	AMD Opteron 8300 Series	AMD Opteron 8200 Series	AMD Opteron 6300 Series	AMD Opteron 6200 Series	AMD Opteron 6100 Series	AMD Opteron 4300 Series	AMD Opteron 4200 Series	AMD Opteron 4100 Series	AMD Opteron 2400 Series	AMD Opteron 2300 Series	AMD Opteron 2200 Series	AMD Opteron 1300 Series
T605											✓	✓	
T105													✓
R905	✓	✓	✓										
R815				✓	✓	✓							
R715				✓	✓	✓							
R805										✓	✓	✓	
R515							✓	✓	✓				
R415							✓	✓	✓				
M915				✓	✓	✓							
M905	✓	✓	✓										
M805										✓	✓	✓	
M605											✓	✓	
6950^a		✓	✓										
2970										✓	✓	✓	

^a AMD Opteron 838x processor is not supported on this system

Dell-Supported Processor Compatibility Matrix

Table 3 lists the Dell-supported Intel processor matrix across 32-bit and 64-bit virtual machines (VMs) that can enable VMotion.

Table 3. VMotion and 32/64-bit VM Compatibility Matrix Across Intel Processor Models

Intel Xeon Processors	Intel Xeon E5-240/2600/4600 Product Family ^{a,b}	Intel Xeon E7-200/4800/8800 Product Family ^a	Intel Xeon 7500 Series	Intel Xeon 7400 Series	Intel Xeon 7300 Series	Intel Xeon 7200 Series	Intel Xeon 6500 Series	Intel Xeon 5600 Series ^b	Intel Xeon 5500 Series	Intel Xeon 5400 Series	Intel Xeon 5300 Series	Intel Xeon 5200 Series	Intel Xeon 5100 Series	Intel Xeon E3-1200 V2 Series	Intel Xeon E3-1200 Series	Intel Core i3 Series	Intel Xeon 3400 Series	Intel Xeon 3300 Series	Intel Xeon 7100 Series	Intel Xeon 7000 Series	Intel Xeon 5000 Series	Intel Xeon 800 MHz, 2x2 MB L2	Intel Xeon 800 MHz, 2 MB L2	Intel Xeon 800 MHz, 1 MB L2	Intel Xeon 667 MHz, 1 MB L2, 4 or 8 MB L3	Intel Xeon 667 MHz, 1 MB L2
Intel Xeon E5-2400/2600/4600 Product Family ^{a,b}	✓	✓	✗	✗	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Intel Xeon E7-2800/4800/8800 Product Family ^a	✓	✓	✗	✗	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Intel Xeon 7500 Series	✗	✗	✓	✗	✗	✗	✓	✗	✓	✗	✗	✗	✗	✗	✗	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
Intel Xeon 7400 Series	✗	✗	✗	✓	✗	✗	✗	✗	✗	✓	✗	✓	✗	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
Intel Xeon 7300 Series	✗	✗	✗	✗	✓	✓	✗	✗	✗	✗	✓	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Intel Xeon 7200 Series	✗	✗	✗	✗	✓	✓	✗	✗	✗	✗	✓	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Intel Xeon 7100 Series	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓
Intel Xeon 7000 Series	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓
Intel Xeon 6500 Series	✗	✗	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
Intel Xeon 5600b Series	✓	✓	✗	✗	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Intel Xeon 5500 Series	✗	✗	✓	✗	✗	✗	✓	✗	✓	✗	✗	✗	✗	✗	✗	✗	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗
Intel Xeon 5400 Series	✗	✗	✗	✓	✗	✗	✗	✗	✗	✓	✗	✓	✗	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
Intel Xeon 5300 Series	✗	✗	✗	✗	✓	✓	✗	✗	✗	✗	✓	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Intel Xeon 5200 Series	✗	✗	✗	✓	✗	✗	✗	✗	✗	✓	✗	✓	✗	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
Intel Xeon 5100 Series	✗	✗	✗	✗	✓	✓	✗	✗	✗	✗	✓	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Intel Xeon 5000 Series	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓
Intel Xeon E3-1200 V2 Series	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Intel Xeon E3-1200 Series	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2nd Gen Intel Core i3 Series	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Intel Core i3 Series	✗	✗	✓	✗	✗	✗	✓	✗	✓	✗	✗	✗	✗	✗	✗	✗	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗
Intel Xeon 3400 Series	✗	✗	✓	✗	✗	✗	✓	✗	✓	✗	✗	✗	✗	✗	✗	✗	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗
Intel Xeon 3300 Series	✗	✗	✗	✓	✗	✗	✗	✗	✗	✓	✗	✓	✗	✗	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
Intel Xeon 800 MHz, 2x2 MB L2	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓
Intel Xeon 800 MHz, 2 MB L2	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓
Intel Xeon 800 MHz, 1 MB L2	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓
Intel Xeon 667 MHz, 1 MB L2, 4 or 8 MB L3	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓
Intel Xeon 667 MHz, 1 MB L2	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓

^a VMotion between Intel Xeon E5-2400/2600/4600 Product Family and Intel Xeon E7-2800/4800/8800 Product Family happens only if the VM is powered-on host with processor Intel Xeon E7-2800/4800/8800 Product family.

^b VMotion between Intel Xeon E5-2400/2600/4600 Product Family and Intel Xeon 5600 Series happens only if the VM is powered-on host with processor Intel Xeon 5600 Series.

Legend



Support for 32-bit and 64-bit VMs; support for Virtualization Technology (VT)



Support for 32-bit VMs only



VMotion works for 32-bit or 64-bit VMs between the corresponding processor models



VMotion fails because of processor incompatibility

Table 4 lists the Dell-supported AMD processor matrix across 32-bit and 64-bit VMs that can enable VMotion.

Table 4. VMotion and 32/64-bit VM Compatibility Matrix Across AMD Processor Models

AMD Opteron Processors	AMD Opteron 8400 Series	AMD Opteron 8300 Series	AMD Opteron 8200 Series	AMD Opteron 6300 Series	AMD Opteron 6200 Series	AMD Opteron 6100 Series ^a	AMD Opteron 4300 Series	AMD Opteron 4200 Series	AMD Opteron 4100 Series	AMD Opteron 2400 Series	AMD Opteron 2300 Series	AMD Opteron 2200 Series	AMD Opteron 1300 Series
AMD Opteron 8400 Series	✓	✓	✗	✗	✗	✓	✗	✗	✓	✓	✓	✗	✓
AMD Opteron 8300 Series	✓	✓	✗	✗	✗	✓	✗	✗	✓	✓	✓	✗	✓
AMD Opteron 8200 Series	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✓	✗
AMD Opteron 6300 Series	✗	✗	✗	✓	✗	✗	✓	✗	✗	✗	✗	✗	✗
AMD Opteron 6200 Series	✗	✗	✗	✗	✓	✗	✗	✓	✗	✗	✗	✗	✗
AMD Opteron 6100 Series ^a	✓	✓	✗	✗	✗	✓	✗	✗	✓	✓	✓	✗	✓
AMD Opteron 4300 Series	✗	✗	✗	✓	✗	✗	✓	✗	✗	✗	✗	✗	✗
AMD Opteron 4200 Series	✗	✗	✗	✗	✓	✗	✗	✓	✗	✗	✗	✗	✗
AMD Opteron 4100 Series	✓	✓	✗	✗	✗	✓	✗	✗	✓	✓	✓	✗	✓
AMD Opteron 2400 Series	✓	✓	✗	✗	✗	✓	✗	✗	✓	✓	✓	✗	✓
AMD Opteron 2300 Series	✓	✓	✗	✗	✗	✓	✗	✗	✓	✓	✓	✗	✓
AMD Opteron 2200 Series	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✓	✗
AMD Opteron 1300 Series	✓	✓	✗	✗	✗	✓	✗	✗	✓	✓	✓	✗	✓

^a VMotion fails between the AMD Opteron 6100 series processors and the third-generation AMD Opteron processors (2400 series, 2300 series, 8400 series, 8300 series, and 1300 series) on ESX/ESXi 4.0 U1. For more information, see the VMware knowledge base article 1020958 at kb.vmware.com.

Legend

- Support for 32-bit and 64-bit VMs; support for VT
- ✓ VMotion works for 32-bit or 64-bit VMs between the corresponding processor models
- ✗ VMotion fails because of processor incompatibility

Dell-Supported Processor Compatibility Matrix With Enhanced VMotion

Table 5 lists the compatibility matrix across 32-bit and 64-bit VMs based on Intel processor models that enable Enhanced VMotion.


 **NOTE:** For more information on VMotion requirements, see Important Information.

Table 5. Enhanced VMotion and 32/64-bit VM Compatibility Matrix Across Intel Processor Models

Intel Xeon Processors	Intel Xeon E5-2400/2600/4600 Product Family	Intel Xeon E7- 2800/4800/8800 Product Family	Intel Xeon 7500 Series	Intel Xeon 7400 Series	Intel Xeon 7300 Series	Intel Xeon 7200 Series	Intel Xeon 6500 Series	Intel Xeon 5600 Series	Intel Xeon 5500 Series	Intel Xeon 5400 Series	Intel Xeon 5300 Series	Intel Xeon 5200 Series	Intel Xeon 5100 Series	Intel Xeon 3400 Series	Intel Xeon 3300 Series	Intel Xeon E3-1200/1200 V2 Product Family	2nd Gen Intel Core i3 Series	Intel Core i3 Series
Intel Xeon E5-2400/2600/4600 Product Family	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Intel Xeon E7-2800/4800/8800 Product Family	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Intel Xeon 7500 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Intel Xeon 7400 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Intel Xeon 7300 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Intel Xeon 7200 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Intel Xeon 6500 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Intel Xeon 5600 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Intel Xeon 5500 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Intel Xeon 5400 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Intel Xeon 5300 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Intel Xeon 5200 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Intel Xeon 5100 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Intel Xeon 3400 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Intel Xeon 3300 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Intel Xeon E3-1200/1200 V2 Product Family	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2nd Gen Intel Core i3 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Intel Core i3 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Legend





-  Support for 32-bit and 64-bit VMs; support for VT
-  VMotion works for 32-bit or 64-bit VMs between the corresponding processor models

Table 6 lists the compatibility matrix across 32-bit and 64-bit VMs based on AMD processor models that enable Enhanced VMotion.

Table 6. Enhanced VMotion and 32/64-bit VM Compatibility Matrix Across AMD Processor Models

AMD Opteron Processors	AMD Opteron 8400 Series	AMD Opteron 8300 Series	AMD Opteron 8200 Series	AMD Opteron 6300 Series	AMD Opteron 6200 Series	AMD Opteron 6100 Series	AMD Opteron 4300 Series	AMD Opteron 4200 Series	AMD Opteron 4100 Series	AMD Opteron 2400 Series	AMD Opteron 2300 Series	AMD Opteron 2200 Series	AMD Opteron 1300 Series
AMD Opteron 8400 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AMD Opteron 8300 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AMD Opteron 8200 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AMD Opteron 6300 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AMD Opteron 6200 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AMD Opteron 6100 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AMD Opteron 4300 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AMD Opteron 4200 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AMD Opteron 4100 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AMD Opteron 2400 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AMD Opteron 2300 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AMD Opteron 2200 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AMD Opteron 1300 Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Legend

-  Support for 32-bit and 64-bit VMs; support for VT
-  VMotion works for 32-bit or 64-bit VMs between the corresponding processor models

Important Information

- For general information on VMware VMotion, see the *VMware VMotion and CPU Compatibility Information Guide* at vmware.com.
- VMotion compatibility depends on the model and stepping of the processor involved. It does not depend on the model of the PowerEdge system or the speed of the processor. Table 3 through Table 7 illustrate VMotion compatibility with respect to processors. For more processor-specific information, see the knowledge base (KB) articles 1991, 1992, and 1993 at kb.vmware.com.
- For more information on Enhanced VMotion Compatibility (EVC) processor support, see kb.vmware.com/kb/1003212.
- To determine if the processor support exists in a specific ESX release, see the specific Systems Compatibility Guide at vmware.com/support/pubs.
- Each PowerEdge system model listed in Table 1 and Table 2 includes all currently supported processor models, stepping, and processor speeds with that system.
- Each processor specification, model number, or series includes all supported processor variants of the family.
- For the latest information on the ESX support matrix for the PowerEdge systems, see the *VMware ESX/ESXi 4 on Dell PowerEdge and Storage Systems Compatibility Matrix* or *VMware ESX/ESXi 5 on Dell PowerEdge and Storage Systems Compatibility Matrix* at support.dell.com/manuals.
- Before enabling VMotion, update all PowerEdge systems to the latest BIOS version at support.dell.com.



NOTE: VMotion between systems with older BIOS versions may fail.

- When you migrate between certain processor models, turn off the NX bit on the VMware vSphere Client interface.

Perform the following steps to turn off the NX bit:

- a Right-click Virtual Machine and select **Edit Settings**→ **Options**→ **Advanced Settings**.
- b Select **Hide the NX flag from guest** radio button.

The NX bit is now turned off.

- VT must be enabled to run 64-bit guest operating systems on Intel platforms. For more information on 64-bit guest operating system VMotion compatibility, see Table 3 through Table 7.
- Create consistent virtual switch names on each copy of ESX.
- VMotion requires the setup of a Gigabit Ethernet migration network between all copies of ESX. It is recommended to isolate this network from other production network traffic.
- For the latest information on VMotion with ESX/ESXi 4.1, see kb.vmware.com/kb/1022851.