March Block Release

for ThinkServer, System x, Flex, and NeXtScale with Intel Xeon Processor E5-2600

Course Number ES41551

April 2016

Objective

Identify the changes made to the ThinkServer servers TD350, RD350, RD450, RD550, RD650, NeXtScale nx360 M5, Flex x240 M5, System x servers x3550 M5, and x3650 M5 that support the most recent Intel Xeon E5-2600 v4 processor.

The following list of ThinkServer, Flex, NeXtScale, and System x servers have been upgraded with Intel's most recent Xeon E5-2600 v4 processor:
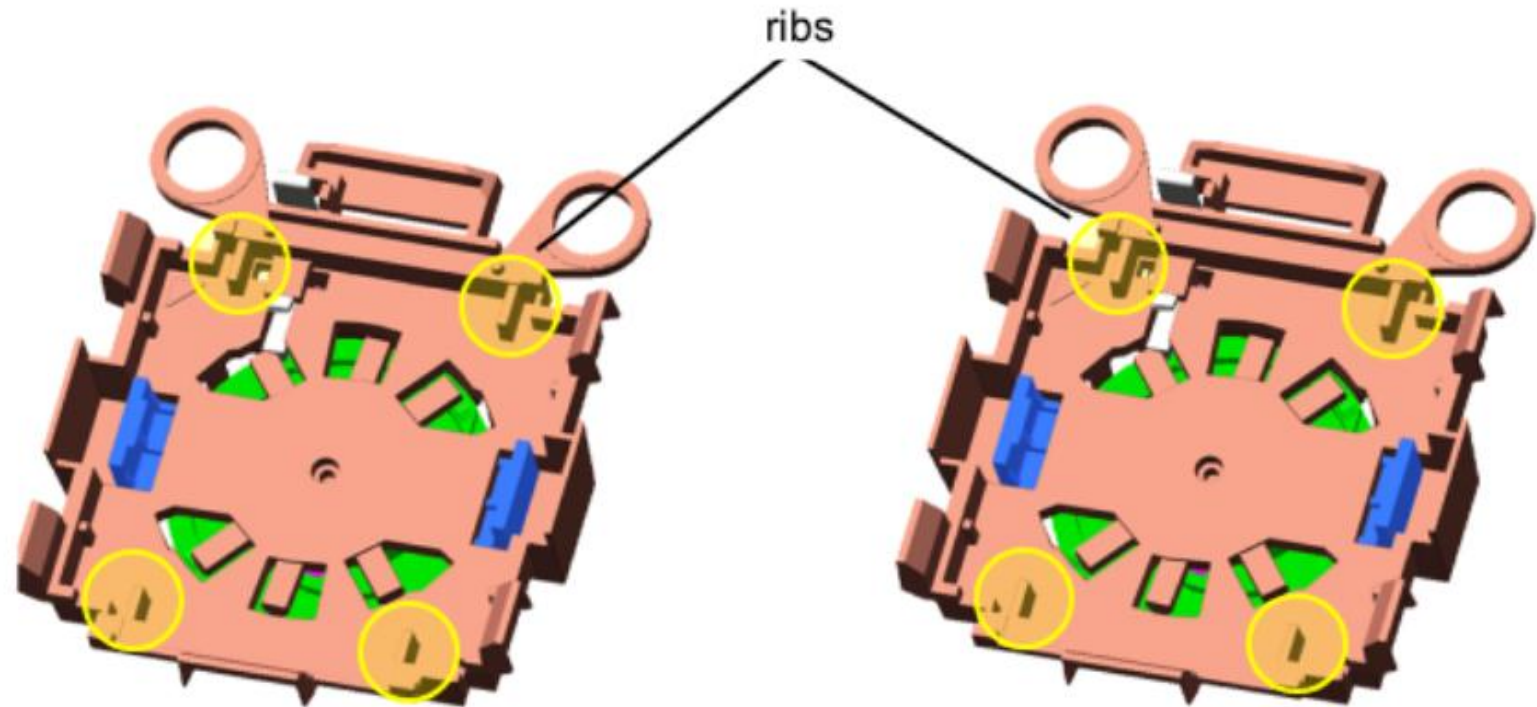
TD350

RD350

RD450

RD550

RD650

nx360 M5

x240 M5

x3550 M5

x3650 M5

New CPU tool

- The Xeon E5-2600 v4 CPU requires a new CPU tool for installation and removal.

- The "ribs" on the new Xeon E5-2600 v4 CPU tool are shorter by 0.55 mm compared to the previous Xeon E5-2600 v3 CPU tool.

- The Xeon E5-2600 v3 CPU tool cannot be used on the new Xeon E5-2600 v4 CPUs. The new Xeon E5-2600 v4 CPU tool can be used on the Xeon E5-2600 v3 CPUs.

ribs

Xeon E5-2600 v3

Xeon E5-2600 v4

X-section diagram of the new and previous CPU tool

New CPU p-states

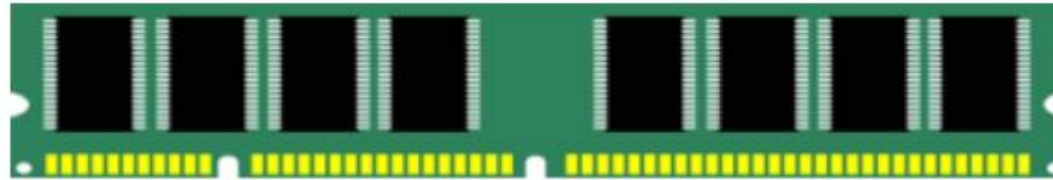Two new CPU p-state modes come with the new Xeon E5-2600 v4 processor:

1) **Cooperative**

2) **Lenovo efficiency**

The CPU p-state modes can be modified in the UEFI interface under **System Settings ->Operating Modes->CPU p-states control** or **System Settings->Processors->CPU p-states control**

DIMM support up to

Some speed limitations exist for certain
configurations. Refer to the "Detailed changes"
section for each model

New machine types

Because of the new Xeon E5-2600 v4 processor, new machine types will be assigned to the following ThinkServer and System x servers:

ThinkServer

RD350	RD450	RD550	RD650
70QK	70Q9	70R3	70R7
70QL	70QA	70R4	70R8
70QM	70QQ	70R5	70R9
70QN	70QR	70R6	70RA
	70QS	70S6	70RB
	70QT	70S7	70RC
	70QW		70RD
	70QV		70RE
			70RF
			70RG

System x

x3550 M5	x3650 M5
8869	8871

New Lenovo logo

The following machines will have the previous Lenovo logo replaced with the new Lenovo logo on the chassis:
- x240 M5
- nx360 M5
- RD350
- RD450
- RD550
- RD650
- x3550 M5
- x3650 M5

For details of the changes, refer to the "Detailed changes" section for each machine

Changes to chassis components

The front and rear chassis have changed on the following ThinkServer and System x machines:

- RD350
- RD450
- RD550
- RD650
- x3550 M5
- x3650 M5

RD450

For details of the changes, refer to the "Detailed changes" section for each machine

Changes to chassis components

The front and rear chassis have changed on the following ThinkServer and System x machines:

- RD350
- RD450
- RD550
- RD650
- x3550 M5
- x3650 M5

For details of the changes, refer to the "Detailed changes" section for each machine

RD550

Changes to chassis components

The front and rear chassis have changed on the following ThinkServer and System x machines:

- RD350
- RD450
- RD550
- RD650
- x3550 M5
- x3650 M5

x3650 M5

For details of the changes, refer to the "Detailed changes" section for each machine

Changes to chassis components

The front and rear chassis have changed on the following ThinkServer and System x machines:

- RD350
- RD450
- RD550
- RD650
- x3550 M5
- x3650 M5

For details of the changes, refer to the "Detail changes" section for each machine

RD650

Changes to chassis components

The front and rear chassis have
changed on the following ThinkServer
and System x machines:

- RD350
- RD450
- RD550
- RD650
- x3550 M5
- x3650 M5

x3550 M5

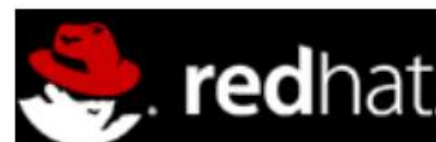For details of the changes, refer to the "Detailed
changes" section for each machine

Updated operating system support

With the new Xeon E5-2600 v4 processor, the
list of operating systems that are supported
have been updated for the following machines:
  • RD350
  • RD450
  • RD550
  • RD650
  • TD350
  • x240 M5
  • nx360 M5
  • x3550 M5
  • x3650 M5

For details of the changes, refer to the "Detailed
changes" section for each machine

Lenovo XClarity Administrator support

- The ThinkServer servers TD350, RD350, RD450, RD550, RD650, NeXtScale nx360 M5, Flex x240 M5, System x servers x3550 M5, and x3650 M5 now support the Lenovo XClarity Administrator resource-management solution.

- The Lenovo XClarity Administrator solution provides:
  - Automated discovery
  - Agent-free hardware management
  - Monitoring
  - Firmware updates and compliance
  - Patter-based configuration management
  - Deployment of operating systems and hypervisors

- Not all XClarity Administrator features are supported by each model. Refer to the feature-platform matrix for more information.

XClarity Administrator feature-platform matrix:

XClarity feature	nx360 M5	x240 M5	x3550 M5 and x3650 M5	RD350, RD450, RD550, RD650, and TD350
Auto-discovery	✓	✓	✓	✓
Inventory tracking	✓	✓	✓	✓
Monitoring and alerting	✓	✓	✓	✓
Call home	✓	✓	✓	✓
Identify and apply critical updates using policies	✓	✓	✓	✗
Create pools of IP, Ethernet, and fiber channel addresses for servers	✗	✓	✗	✗
Configure hardware using patterns	✓	✓	✓	✗
Install hypervisors and operating systems	✓	✓	✓	✗