

**Red Hat Enterprise Linux technology capabilities and limits ..... 3**



# Red Hat Enterprise Linux technology capabilities and limits

: <https://access.redhat.com/articles/rhel-limits>

Red Hat® Enterprise Linux®

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<sup>1)</sup>

	3	4	5	6	7
<b>CPU</b> <sup>2)</sup>					
x86	16	32	32	32	<sup>3)</sup>
Itanium 2	8	256 [512]	256 [1024]	<sup>4)</sup>	<sup>5)</sup>
x86_64	8	64 [64]	160 [255]	288 [4096] <sup>6)</sup>	288 [5120] <sup>7)</sup>
POWER	8	64 [128]	128	128	192 [2048]
System z	64 (z900)	64 (z10 EC)	64 (z13)	64 (z13)	282 (z13)
<sup>8)</sup>					
x86	64GB <sup>9)</sup>	64GB <sup>10)</sup>	16GB <sup>11)</sup>	16GB <sup>12)</sup>	<sup>13)</sup>
Itanium 2	128GB	2TB	2TB	<sup>14)</sup>	<sup>15)</sup>
x86_64	128GB	256GB [1TB]	1TB	12TB [64TB] <sup>16)</sup>	12TB [64TB] <sup>17)</sup>
POWER	64GB	128GB [1TB]	512GB [1TB]	2TB	2TB
System z	256GB (z900)	1.5TB (z10 EC)	4TB (z13)	4TB (z13)	10TB (z13)
("sd" )					
	256	256 <sup>18)</sup>	1,024 <sup>19) 20)</sup>	8,192 <sup>21) 22)</sup>	10,000 <sup>23) 24)</sup>
x86	256MB	256MB	512MB / 1 GB / CPU	512MB / 1 GB / CPU	<sup>25)</sup>
x86_64	256MB	256MB	512MB / 1 GB / CPU /	1GB / 1 GB / CPU	1GB / 1 GB / CPU
Itanium 2	512MB	512MB	512MB / 1 GB / CPU	<sup>26)</sup>	<sup>27)</sup>
POWER	512MB	512MB	1GB / 2GB	2GB / 2GB	2GB / 2GB
	800MB	800MB	1GB / 5GB	1GB / 5GB	10GB / 20GB
(Ext3)	2TB	2TB	2TB	2TB	2TB
(Ext3)	2TB	8TB	16TB	16TB	16TB
(Ext3)	32000	32000	32000	32000	32000

	3	4	5	6	7
(Ext3)	8	8	8	8	8
ACL (Ext3)					
(Ext4)	-	-	16TB	16TB	16TB
(Ext4)	-	-	65000 /	65000 /	65000 /
(Ext4)	-	-	8	8	8
ACL (Ext4)	-	-			
(Ext4)	-	-	16TB [1EB]	16TB [1EB]	50TB [1EB]
(GFS)	2TB	16TB [8EB]	16TB [8EB] <sup>28)</sup>		
(GFS)	2TB	16TB [8EB]	16TB [8EB] <sup>29)</sup>		
(GFS2)	-	-	100TB [8EB]	100TB [8EB]	100TB [8EB]
(GFS2)	-	-	100TB [8EB]	100TB [8EB]	100TB [8EB]
(XFS)	-	-	100TB [8EB]	100TB [8EB]	500TB [8EB]
(XFS)	-	-	100TB [16EB]	100TB [16EB]	500TB [16EB]
(XFS)	-	-			
(XFS)	-	-	8	8	8
ACL (XFS)					
LUN (BIOS)	-	-	2TB	2TB <sup>30)</sup>	2TB <sup>31)</sup>
LUN (UEFI)	-	-	N / A	32bit (i686) - 2TB, 64bit - 16TB ( )	50TB
(x86) 가	4GB	4GB	3GB <sup>32)</sup>	3GB <sup>33)</sup>	<sup>34)</sup>
x86_64 가		512GB	2TB	128TB	128TB
<b>OS</b>					
	Linux 2.4.21	Linux 2.6.9	Linux 2.6.18	2.6.32 - 2.6.34	3.10
/	GCC 3.2	GCC 3.4	GCC 4.1	GCC 4.4	GCC 4.8.2
	10	15	19	22	22
NIAP / CC 11	(3+)	(4+)	(4+)	(4+)	가 (4+)
Common Criteria KVM 11	-	-	가	가	가
IPv6	-	-	Phase 2	Phase 2	가
FIPS 11	-	-	(7 )	(8 )	가 (9 )

	3	4	5	6	7
Common Operating Environment (COE)					
LSB	- 1.3	- 3	- 3.1	- 4.0	가 (4.1)
GB18030					
GUI	Gnome 2.2	Gnome 2.8	Gnome 2.16	Gnome 2.28	Gnome 3.8
	XFree86	X.org	X.org 7.1.1	X.org 7.4	X.org 7.7
OpenOffice	V1.1	V1.1.2	V2.0.4 12	V3.2 12	LibreOffice V4.1.4 12
Gnome Evolution	V1.4	V2.0	V2.8.0	V2.28	V3.8.5
	Mozilla	Firefox	Firefox 1.5 12	Firefox 3.6 12	Firefox 24.5 12

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Red Hat

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## Red Hat

Hardware Catalog

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Red Hat

, Red Hat Enterprise Linux

Hardware Catalog

가

2)

Red Hat

CPU

가

/ CPU

3) 4) 5) 13) 14) 15) 25) 26) 27) 34)

Red Hat Enterprise Linux 6 Itanium 2

Enterprise Linux 7 Itanium 2 32 x86

6) 7)

288 CPU

Red Hat Enterprise Linux 7.1

CPU 240

8)

## Red Hat Enterprise Linux

Red Hat Enterprise Linux 6 46

Hat Enterprise Linux 5 40

NUMA

가

9) 10)

"SMP"

16GB RAM

. 16GB

"Hugemem"

"Hugemem"

11) 12) 32) 33)

x86 "Hugemem"

Red Hat Enterprise Linux 5 6

16)

12TB RAM

Red Hat Enterprise Linux 6.7

Hat Enterprise Linux 6.6

Red Hat Enterprise Linux 6 (Red Hat Enterprise

Linux 6.3 ) 3TB RAM

Red Hat Enterprise Linux 6.3

Linux 1TB RAM

Red Hat Enterprise

17)

12TB RAM

Red Hat Enterprise Linux 7.2

Hat Enterprise Linux 7.1

Red Hat Enterprise Linux 7

Linux 7.0) 3TB RAM

18) 19) 21) 23)

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Hat

20) 22) 24)

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28) 29)

32

가 64

, gfs

8EB

16TB

30) 31)

2TB LUN UEFI GPT

<https://access.redhat.com/kb/docs/DOC-16981>

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