

SUSE Linux health check

Rendszeres ellenőrzések

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konzultáns

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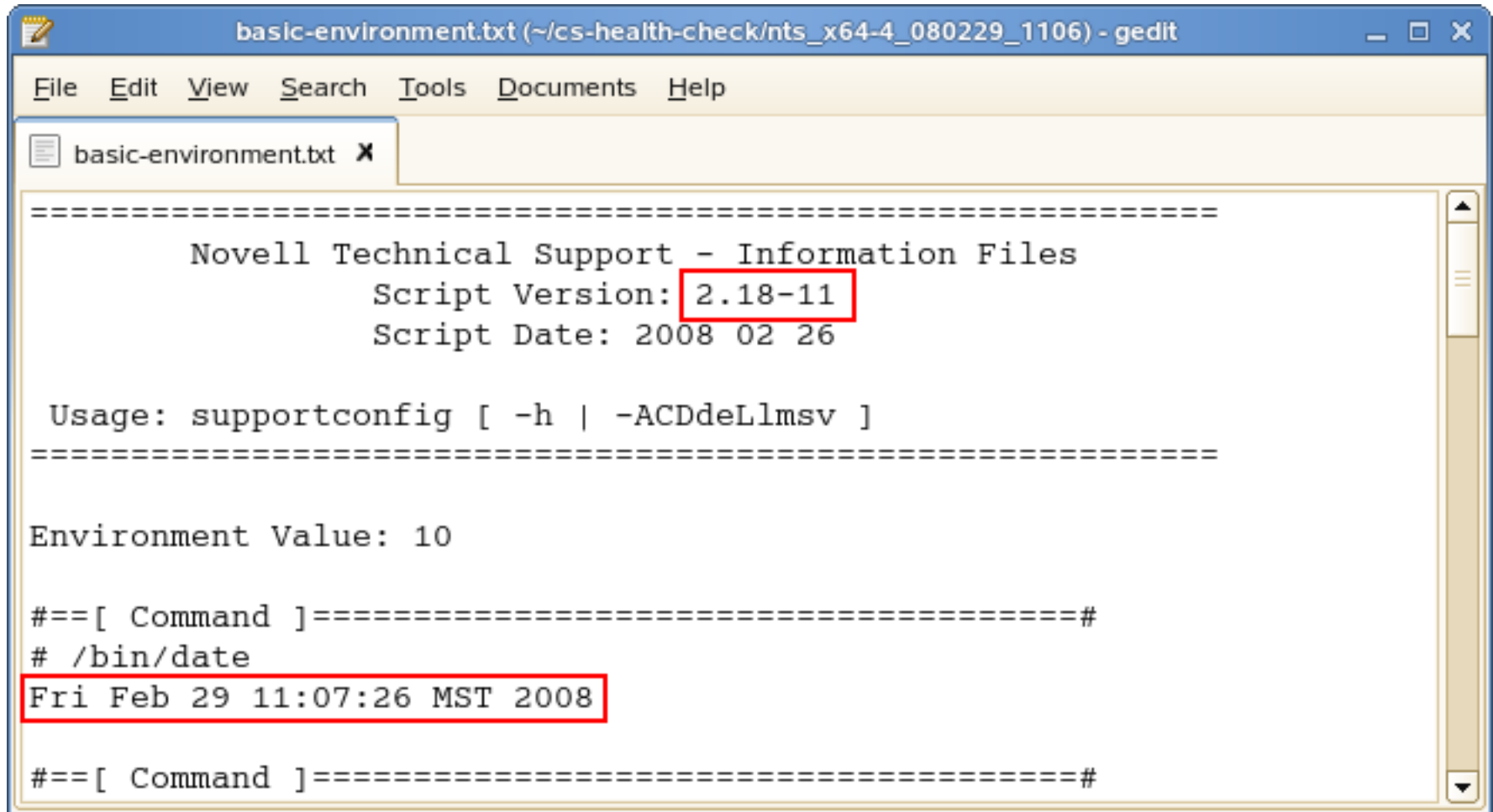
Novell[®]

SUSE Linux Enterprise Server rendszeres ellenőrzése

- Megelőzés
- Hibák észlelése
- Hibaelhárítás támogatása
- Supportconfig használata

Konfiguráció ellenőrzése

Konfiguráció - Supportconfig



```
basic-environment.txt (~/.cs-health-check/nts_x64-4_080229_1106) - gedit
File Edit View Search Tools Documents Help
basic-environment.txt x
=====
Novell Technical Support - Information Files
Script Version: 2.18-11
Script Date: 2008 02 26

Usage: supportconfig [ -h | -ACDdeLlmsv ]
=====

Environment Value: 10

#==[ Command ]=====#
# /bin/date
Fri Feb 29 11:07:26 MST 2008
#==[ Command ]=====#
```

Konfiguráció - Supportconfig

- <http://www.novell.com/communities/node/2332/supportconfig-linux>
- Supportutils

Supportconfig futtatása



```
gahorvath@npsh-gahorvath:~  
File Edit View Terminal Tabs Help  
sentinel:~ # supportconfig -A  
  
===== Support Utilities - Supportconfig  
Script Version: 2.25-136  
Script Date: 2009 08 07  
=====  
  
Gathering system information  
  
Basic Server Health Check... Done  
RPM Database... Done  
Basic Environment... Done  
Basic Health Report... Done  
System Modules... Done  
Memory Details... Done  
Disk I/O... Done  
System Logs... Done  
YaST Files... Done  
File System List... Please Wait... Done  
Crash Info... Skipped  
NTP... Done  
PROC... Done  
Boot Files... Done
```

```
gahorvath@npsh-gahorvath:~  
File Edit View Terminal Tabs Help  
sentinel:~ # ls -ld /var/log/nts*  
/var/log/nts sentinel 100312 1541  
sentinel:~ # ÓÓPP  
ÉÉHHNN  
hostname
```

OS verzió



```
# SPident -vv
```

```
Summary (using 1105 packages)
Product/ServicePack conflict match update (shipped)
SLE-10-x86_64 0 0% 344 31.1% 177 (2754 12.5%)
SLE-10-x86_64-SP1 0 0% 485 43.9% 183 (2938 16.5%)
SLE-10-x86_64-SP2 2 0.1% 809 73.2% 179 (2337 34.6%)
- grep 2.5.1a-20.17.i586 < 2.5.1a-20.17.x86_64
- yudit 2.9.0-0.4.i586 < 2.9.0-0.4.x86_64
Unknown 290 26.2%
```

Legend for Package Details:

- conflicting package (found < expected)

CONCLUSION: System is NOT up-to-date!

found SLE-10-x86_64-SP1 + "online updates"
expected SLE-10-x86_64-SP2

OS verzió



*** Summary (see above or log for details):

Product: SUSE_SLES 11 0 x86_64

Statistics:

Total packages installed:	1180
Packages signed by Novell:	1171
Packages matching installed products:	1171
Packages not created by Novell:	2
Unsupported Novell packages:	0
File modifications:	0
Unsatisfied dependencies:	0
Novell packages depending on 3rd party packages:	0
Updates needed:	0
Files not belonging to a package:	?

Status and recommendations:

With a small number of changes, your system can receive support from Novell. In order to ensure supportability, please resolve the following item(s):

- One or more repositories need to be updated. SAM was not able to check if your installed Novell software has the versions required to be supported. Please update your repositories for example by running 'zypper refresh'.

...

Kernel taint státusz

```
> /sbin/sysctl kernel.tainted  
kernel.tainted = 2
```

```
> lsmod
```

```
> /sbin/modinfo nsslibrary
```

```
filename:          /lib/modules/2.6.16.60-0.59.1-bigsmpt/weak-  
updates/nsslibrary.ko
```

```
license:           GPL v2
```

```
description:       library
```

```
author:            Novell, Inc.
```

```
srcversion:        7139E90984CE15902DD661D
```

```
depends:            nsslnxlib
```

```
supported:         yes
```

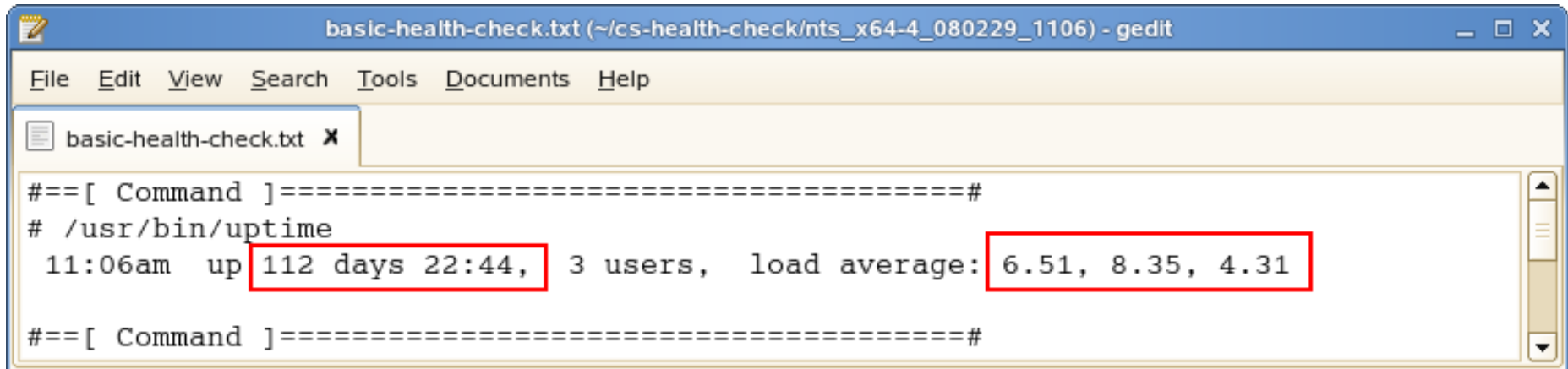
```
vermagic:          2.6.16.60-0.54.5-bigsmpt SMP 586 REGPARM gcc-4.1
```

Teljesítmény mutatók

Memória kihasználtság

```
basic-health-check.txt (~/.cs-health-check/nts_x64-4_080229_1106) - gedit
File Edit View Search Tools Documents Help
basic-health-check.txt x
#==[ Command ]=====#
# /usr/bin/vmstat 1 4
procs -----memory----- --swap-- -----io----- -system-- -----cpu-----
 r  b swpd   free   buff   cache    si   so    bi   bo    in   cs   us  sy  id  wa  st
 5  0   28 39592 105048 1437952    0    0    0    1    0    0    0  0 100  0  0
 6  0   28 39592 105048 1437952    0    0    0    0  280  347 100  0  0  0  0
 6  0   28 39592 105048 1437952    0    0    0    0  277  340 100  0  0  0  0
 6  0   28 39592 105048 1437952    0    0    0  248  280  355 100  0  0  0  0
#==[ Command ]=====#
# /usr/bin/free -k
          total          used          free    shared    buffers    cached
Mem:      2060716      2021512      39204         0      105052      1437948
-/+ buffers/cache:      478512      1582204
Swap:      1052216           28      1052188
```

Load average



```
basic-health-check.txt (~/.cs-health-check/nts_x64-4_080229_1106) - gedit
File Edit View Search Tools Documents Help
basic-health-check.txt x
#==[ Command ]=====#
# /usr/bin/uptime
11:06am up 112 days 22:44, 3 users, load average: 6.51, 8.35, 4.31
#==[ Command ]=====#
```

CPU Terhelés



```
basic-health-check.txt (~/.cs-health-check/nts_x64-4_080229_1106) - gedit
File Edit View Search Tools Documents Help
basic-health-check.txt x
#==[ Command ]=====#
# /usr/bin/vmstat 1 4
procs -----memory----- --swap-- ----io---- -system- ----cpu-----
 r  b swpd   free   buff   cache    si   so    bi    bo    in    cs    us  sy  id  wa  st
 5  0    28 39592 105048 1437952    0    0     0     1     0     0     0  0 100  0  0
 6  0    28 39592 105048 1437952    0    0     0     0   280   347 100  0  0  0  0
 6  0    28 39592 105048 1437952    0    0     0     0   277   340 100  0  0  0  0
 6  0    28 39592 105048 1437952    0    0     0   248   280   355 100  0  0  0  0

#==[ Command ]=====#
# /usr/bin/mpstat -P ALL 1 3
Linux 2.6.16.53-0.16-smp (x64-4)          02/29/08

11:06:54 CPU   %user  %nice  %sys  %iowait  %irq  %soft  %steal  %idle  intr/s
11:06:55 all   99.75  0.00  0.25  0.00  0.00  0.00  0.00  0.00  281.00
11:06:55  0  100.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  9.00
11:06:55  1  100.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  251.00
11:06:55  2  100.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  21.00
11:06:55  3  101.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00

11:06:55 CPU   %user  %nice  %sys  %iowait  %irq  %soft  %steal  %idle  intr/s
11:06:56 all   100.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  276.24
11:06:56  0  100.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  27.72
11:06:56  1  100.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  248.51
11:06:56  2  100.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
11:06:56  3   99.01  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
```

CPU Terhelés



```
*basic-health-check.txt (~/.cs-health-check/nts_x64-4_080229_1106) - gedit
File Edit View Search Tools Documents Help
*basic-health-check.txt x
#==[ Top 10 CPU Processes ]=====#
# ps axwwo %cpu,pid,user,cmd | sort -k 1 -r | head -11
%CPU    PID  USER    CMD
90.5    24734 root     ./loop 3
90.1    24736 root     ./loop 5
75.7    24733 root     ./loop 2
71.1    24732 root     ./loop 1
69.5    24735 root     ./loop 4
10.1    3391  root     zmd /usr/lib/zmd/zmd.exe --sleep-resume
0.3     3951  root     gnome-power-manager --sm-disable
0.2     24779 root     /bin/bash /sbin/supportconfig
0.2     21497 root     sshd: root@pts/1
0.0     26579 wwwrun  /usr/sbin/httpd2-prefork -f /etc/apache2/httpd.conf
```

CPU Terhelés



```
gahorvath@npsh-gahorvath:~  
File Edit View Terminal Tabs Help  
top - 16:27:29 up 8:27, 2 users, load average: 0.26, 0.35, 0.37  
Tasks: 150 total, 3 running, 147 sleeping, 0 stopped, 0 zombie  
Cpu(s): 1.1%us, 0.3%sy, 0.0%ni, 98.5%id, 0.0%wa, 0.0%hi, 0.0%si, 0.0%st  
Mem: 4051776k total, 3588812k used, 462964k free, 383752k buffers  
Swap: 2097144k total, 0k used, 2097144k free, 2422780k cached
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
3987	root	20	0	447m	130m	16m	S	2	3.3	21:05.33	X
5313	gahorvat	20	0	10704	7288	2136	S	1	0.2	0:02.24	gconfd-2
5330	gahorvat	20	0	102m	21m	14m	S	1	0.6	2:54.30	gnome-panel
13597	gahorvat	20	0	91592	15m	11m	R	1	0.4	0:00.26	gnome-terminal
25940	gahorvat	20	0	533m	146m	43m	S	1	3.7	7:16.22	groupwise-bin
6065	gahorvat	20	0	528m	160m	36m	S	0	4.1	23:30.94	firefox
6077	gahorvat	20	0	289m	34m	21m	S	0	0.9	1:41.29	pidgin
12894	gahorvat	20	0	619m	146m	68m	S	0	3.7	1:23.52	soffice.bin
1	root	20	0	1008	360	308	S	0	0.0	0:01.20	init
2	root	15	-5	0	0	0	S	0	0.0	0:00.00	kthreadd
3	root	RT	-5	0	0	0	S	0	0.0	0:00.06	migration/0
4	root	15	-5	0	0	0	S	0	0.0	0:10.04	ksoftirqd/0
7	root	15	-5	0	0	0	S	0	0.0	0:01.72	events/0
9	root	15	-5	0	0	0	S	0	0.0	0:00.00	khelper
10	root	15	-5	0	0	0	S	0	0.0	0:00.00	kintegrityd/0
12	root	15	-5	0	0	0	S	0	0.0	0:00.04	kblockd/0
14	root	15	-5	0	0	0	S	0	0.0	0:36.41	kacpid

CPU Terhelés



```
gahorvath@npsh-gahorvath:~  
File Edit View Terminal Tabs Help  
gahorvath@npsh-gahorvath:~> vmstat 1 8  
procs -----memory----- --swap-- -----io----- -system-- -----cpu-----  
r b  swpd  free  buff  cache  si  so  bi  bo  in  cs us sy id wa st  
1 0    0 1705500 277688 1087080  0  0  23  29  410  124  5  1  92  2  0  
1 0    0 1705500 277688 1087080  0  0   0   0  509  674  1  0  99  0  0  
0 0    0 1705500 277692 1087076  0  0   0  140  511  1726  1  0  93  6  0  
0 0    0 1705396 277692 1087080  0  0   0   0  566  1646  1  2  97  0  0  
0 0    0 1705068 277692 1087080  0  0   0   0  569  1479  1  1  98  0  0  
0 0    0 1704944 277692 1087076  0  0   0   0  496  972  1  0  98  0  0  
0 0    0 1704944 277692 1087076  0  0   0   0  465  2490  0  0  100  0  0  
0 0    0 1705000 277692 1087076  0  0   0   0  497  1604  2  0  98  0  0  
gahorvath@npsh-gahorvath:~> █
```


Lemezterület

```
gahorvath@npsh-gahorvath:~  
File Edit View Terminal Tabs Help  
gahorvath@npsh-gahorvath:~> df -h  
Filesystem      Size  Used Avail Use% Mounted on  
/dev/mapper/system-root  
                30G   18G   11G   65% /  
udev            2.0G  132K  2.0G   1% /dev  
/dev/sda1       92M   54M   33M   63% /boot  
tmpfs           2.0G   12M   2.0G   1% /tmp  
/dev/mapper/system-data  
                99G   83G   12G   88% /data  
/dev/mapper/cr_crypt-test  
                4.0G  3.3G  481M   88% /home/cryptdata  
gahorvath@npsh-gahorvath:~> █
```

Processzek állapota

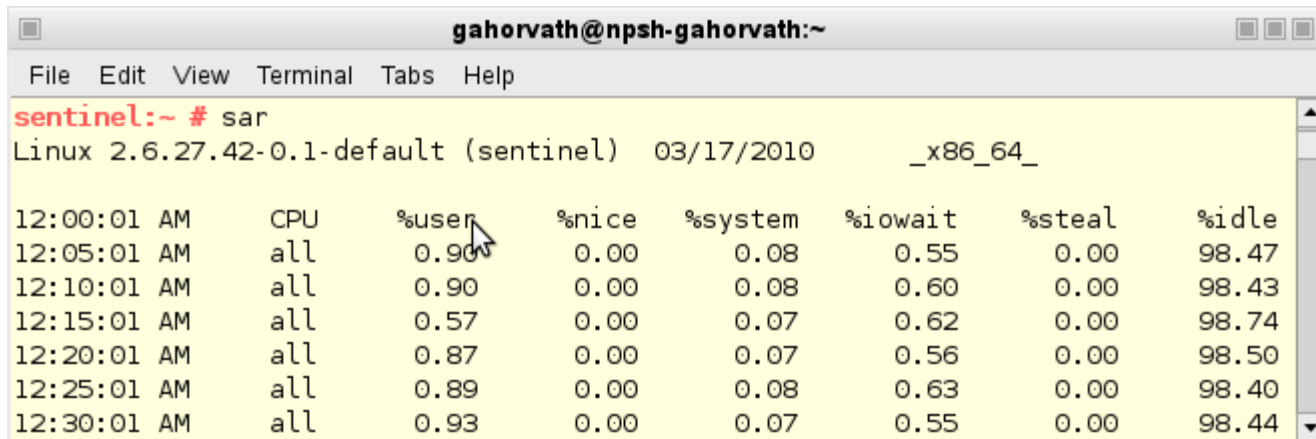


```
basic-health-check.txt (~/.cs-health-check/nts_x64-4_080229_1106) - gedit
File Edit View Search Tools Documents Help
basic-health-check.txt x
#==[ Checking Health of Processes ]=====#
# egrep " D| Z" /var/log/nts_x64-4_080229_1106/basic-health-check.txt.24779
root      24735 21500 69.3  0.0   1308   348 D    00:01:53 ./loop 4
#==[ Top 10 CPU Processes ]=====#
```

```
gahorvath@npsh-gahorvath:~
File Edit View Terminal Tabs Help
gahorvath@npsh-gahorvath:~> ps ax | egrep " (Z|D)"
2014 ?      ZN      0:00 [gwdca] <defunct>
6487 ?      ZN      0:00 [gwdca] <defunct>
6920 ?      ZN      0:01 [gwdca] <defunct>
8089 ?      ZN      0:00 [gwdca] <defunct>
gahorvath@npsh-gahorvath:~> █
```

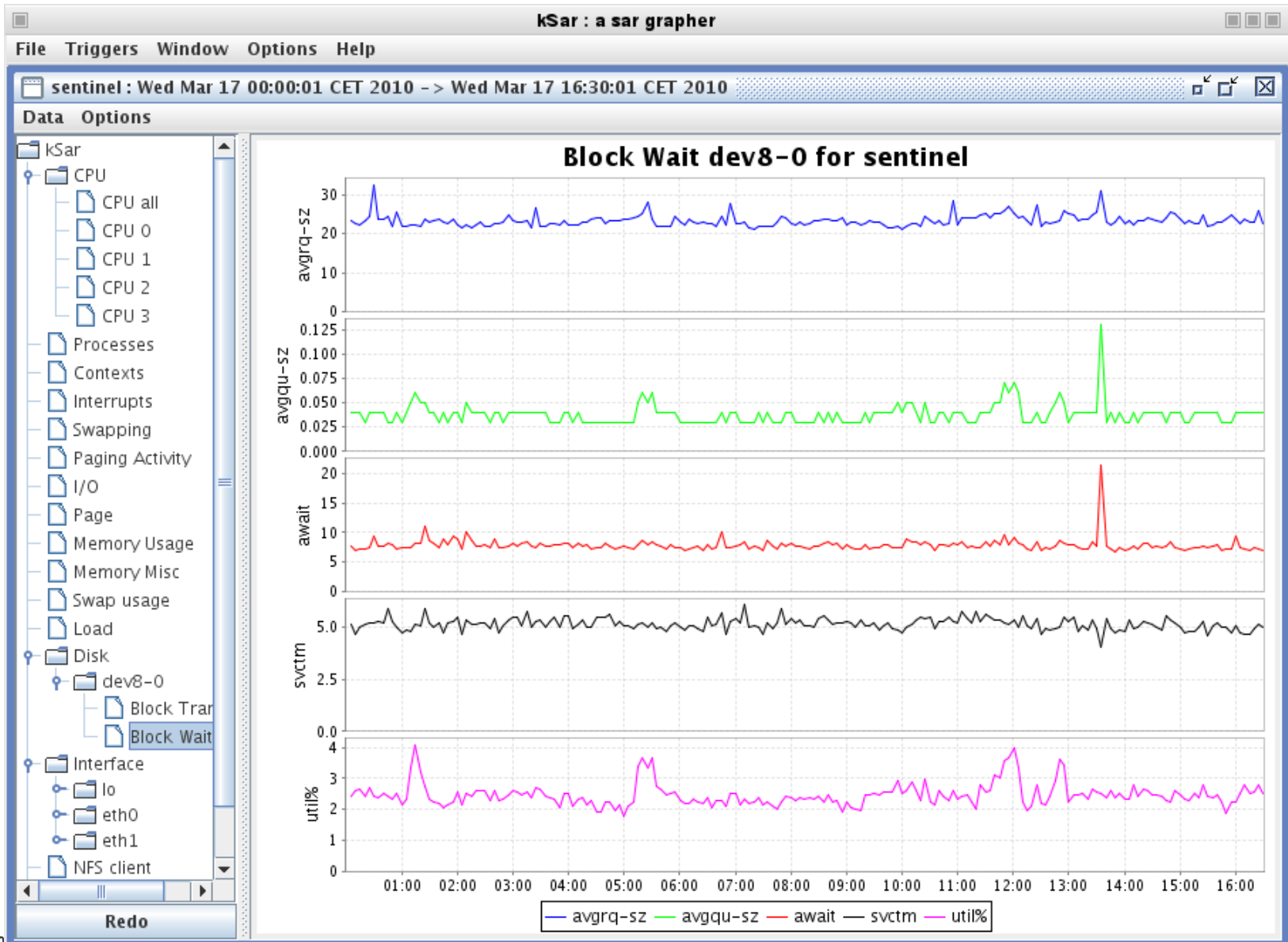
Trend jellegű információk

- Sysstat csomag



```
gahorvath@npsh-gahorvath:~  
File Edit View Terminal Tabs Help  
sentinel:~ # sar  
Linux 2.6.27.42-0.1-default (sentinel) 03/17/2010 _x86_64_  
12:00:01 AM CPU %user %nice %system %iowait %steal %idle  
12:05:01 AM all 0.90 0.00 0.08 0.55 0.00 98.47  
12:10:01 AM all 0.90 0.00 0.08 0.60 0.00 98.43  
12:15:01 AM all 0.57 0.00 0.07 0.62 0.00 98.74  
12:20:01 AM all 0.87 0.00 0.07 0.56 0.00 98.50  
12:25:01 AM all 0.89 0.00 0.08 0.63 0.00 98.40  
12:30:01 AM all 0.93 0.00 0.07 0.55 0.00 98.44
```

Trend jellegű információk - kSar



Üzemeltetési folyamatok

Üzemeltetési folyamatok

- Szabványosítás - egységesítés
- Konfiguráció felügyelet - supportconfig, verziókövető rendszer
- Mentés
 - Bacula
 - Amanda
- Hibatűrő rendszerek
 - SLES-HA Extension

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