

ShowSys - a free ware tool from GreenHouse
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ShowSys 102
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22Jun2001
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Wouldn't it be handy to have all system processes displayed along with some attributes, like CPU busy, start time etc.?

Wouldn't it be even better to have these processes sorted, e.g by

- CPU,PIN, or
- start time, or
- elapsed time, or
- actual busy time

And what about having the shown processes refreshed every n seconds?

ShowSys does the trick for you.

ShowSys can display all system process, sorted by

- CPU,PIN (default)
- start time (BY STARTTIME modifier)
- elapsed time (BY CPUTIME modifier)
- busy time (BY CPUBUSY modifier)
- process name (BY PROCNAME modifier)

where the Evaluation results of the

- elapsed time (BY CPUTIME CYCLE <second> modifier)
- busy time (BY CPUBUSY CYCLE <second> modifier)

can be refreshed every 1 .. 300 seconds.

The shortest cycle time is dependent on the terminal output time, and the number of processes to be taken into account.

The cycle time is automatically set to: $\$MAX(\text{CycleTime}, \text{TerminalOutputTime})$

ShowSys restriction:

ShowSys actually supports 9000 system processes.
In case there are more than 9000 system processes available, ShowSys abends.

When in CYCLE-mode (an evaluated result has to be displayed each n seconds), only up to 21 of the most important processes are displayed.

In case there are a few hundred system processes running it might be possible, that the data collecting phase is longer than one second. In this case, the cycle time has to be adjusted.

Command syntax:

The following ShowSys commands are available:

```
[run] ShowSys [/OUT <file>/] [-H[ELP]]
```

```

[run] ShowSys [/OUT <file>/]

[run] ShowSys [/OUT <file>/] BY CPUBUSY
[run] ShowSys                BY CPUBUSY CYCLE <sec>

[run] ShowSys [/OUT <file>/] BY CPUTIME
[run] ShowSys                BY CPUTIME CYCLE <sec>

[run] ShowSys [/OUT <file>/] BY PROCNAME

[run] ShowSys [/OUT <file>/] BY STARTTIME

```

where

<file> OUT file ShowSys sends its output to.
In case <file> does not exist, it becomes created as
an EDIT type file.

-H[ELP] keyword, directing ShowSys to display some help
information.

BY CPUBUSY directs ShowSys to display the processes in order of
their actual busy time (most first)
CYCLES <n> when NOT present, causes ShowSys to display CPUBUSY once
for a 5 second measurement period.
when present, causes ShowSys to display CPUBUSY every
n seconds; CYCLES does NOT allow an OUT other than a
terminal device.

BY CPUTIME directs ShowSys to display the processes in order of
their elapsed time (most first)
CYCLES <n> when present, causes ShowSys to display CPUTIME every
n seconds; CYCLES does NOT allow an OUT other than a
terminal device.

BY PROCNAME directs ShowSys to display the processes in order of
their process name.

BY STARTTIME directs ShowSys to display the processes in order of
their start time (oldest first).

When in CYCLE mode, the terminal buffer is erased, and up to 21
processes are displayed.

To terminate the CYCLE mode, press the
- BREAK key, or the
- CTRL-Y key combination.

Examples:

Display all system processes, sorted by CPU,PIN

```
ShowSys [/OUT <file>/]
```

e.g.

```

$GHS1 SHOWSYS 35> showsys
ShowSys (100) - T7172G06                                     13:15:23
CPU PIN  Name      Start Time          CPU Time          Program File Name
  0,18    23Dec00 10:48:28  00:00:00:00.166857  $$SYSTEM.SYS00.LHOBJ
  0,285  $$S01S1 23Dec00 10:48:24  00:00:00:00.023447  $$SYSTEM.SYS00.OATPCSS
  0,286  $$S01S2 23Dec00 10:48:24  00:00:00:00.024501  $$SYSTEM.SYS00.OATPCSS
.
.
  1,289  $GHS1   23Dec00 10:49:14  00:00:00:03.064489  $$SYSTEM.SYS00.TSYSDP2
  1,291  $DSMSCM23Dec00 10:49:16  00:00:00:00.507430  $$SYSTEM.SYS00.TSYSDP2
$GHS1 SHOWSYS 36>

```

Display all system processes, sorted by start time

ShowSys [/OUT <file>/] BY STARTTIME

e.g.

```

$GHS1 SHOWSYS 36>showsys by starttime
ShowSys (100) - T7172G06                                     13:17:11
CPU PIN  Name      Start Time          CPU Time          Program File Name
  0,262  $$SYSTEM23Dec00 10:47:48  00:00:00:12.914455  $$SYSTEM.SYS00.TSYSDP2
  0,269  $$SYSTEM23Dec00 10:47:49  00:00:00:03.734459  $$SYSTEM.SYS00.TSYSDP2
  0,270  $$SYSTEM23Dec00 10:47:50  00:00:00:07.385798  $$SYSTEM.SYS00.TSYSDP2
.
.
  1,289  $GHS1   23Dec00 10:49:14  00:00:00:03.064489  $$SYSTEM.SYS00.TSYSDP2
  1,290  $GHS2   23Dec00 10:49:15  00:00:00:00.552873  $$SYSTEM.SYS00.TSYSDP2
  1,291  $DSMSCM23Dec00 10:49:16  00:00:00:00.507430  $$SYSTEM.SYS00.TSYSDP2
$GHS1 SHOWSYS 37>

```

Display all system processes, sorted by elapsed time

ShowSys [/OUT <file>/] BY CPUTIME

e.g.

```

$GHS1 SHOWSYS 38> showsys by cputime
$GHS1 SHOWSYS 38..
ShowSys (100) - T7172G06                                     13:18:18
CPU PIN  Name      Start Time          CPU Time          Program File Name
  1,267  $GHS1   23Dec00 10:49:07  00:00:01:32.333617  $$SYSTEM.SYS00.TSYSDP2
  0,280  $GHS1   23Dec00 10:48:23  00:00:00:26.012085  $$SYSTEM.SYS00.TSYSDP2
  0,262  $$SYSTEM23Dec00 10:47:48  00:00:00:12.917034  $$SYSTEM.SYS00.TSYSDP2
.
.
  1,276  $$S01P1 23Dec00 10:49:11  00:00:00:00.017820  $$SYSTEM.SYS00.OATPCSS
  1,274  $$S01S1 23Dec00 10:49:10  00:00:00:00.017705  $$SYSTEM.SYS00.OATPCSS
  1,15   $NCP    23Dec00 10:49:08  00:00:00:00.011875  $$SYSTEM.SYS00.NCPOBJ
$GHS1 SHOWSYS 39>

```

Display all processes, sorted by elapsed time, every n seconds

ShowSys BY CPUTIME CYCLE <seconds>

e.g.

ShowSys (100) - T7172G06				(5 s)	13:19:50	
CPU PIN	Name	CPU Time	% CPU	Program File Name	Pri	
1,267	\$GHS1	00:00:01:32.436282	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
0,280	\$GHS1	00:00:00:26.052527	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
0,262	\$\$SYSTEM	00:00:00:12.920816	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
0,270	\$\$SYSTEM	00:00:00:07.385798	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
1,281	\$GHS1	00:00:00:05.183322	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
0,269	\$\$SYSTEM	00:00:00:03.734459	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
1,289	\$GHS1	00:00:00:03.064489	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
0,279	\$DSMSCM	00:00:00:02.260295	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
1,266	\$DSMSCM	00:00:00:02.006019	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
1,265	\$\$ZZW01	00:00:00:01.957760	0.02	\$\$SYSTEM.SYS00.CONMGR	199	
0,276	\$\$ZZW00	00:00:00:01.926358	0.02	\$\$SYSTEM.SYS00.CONMGR	199	
0,281	\$GHS2	00:00:00:01.802925	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
1,282	\$GHS2	00:00:00:00.822034	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
1,268	\$GHS2	00:00:00:00.748561	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
1,284	\$DSMSCM	00:00:00:00.728221	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
1,286	\$\$SYSTEM	00:00:00:00.597720	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
0,294	\$GHS1	00:00:00:00.586099	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
1,290	\$GHS2	00:00:00:00.552873	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
0,295	\$GHS2	00:00:00:00.514669	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
1,291	\$DSMSCM	00:00:00:00.507430	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
0,296	\$DSMSCM	00:00:00:00.491203	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	

Display all system processes, sorted by CPU busy time, every n seconds

ShowSys BY CPUBUSY CYCLE <seconds>

e.g.

ShowSys (100) - T7172G06				(5 s)	13:21:00	
CPU PIN	Name	CPU Time	% CPU	Program File Name	Pri	
1,265	\$\$ZZW01	00:00:00:01.971767	0.01	\$\$SYSTEM.SYS00.CONMGR	199	
0,276	\$\$ZZW00	00:00:00:01.940348	0.01	\$\$SYSTEM.SYS00.CONMGR	199	
1,267	\$GHS1	00:00:01:32.550461	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
0,280	\$GHS1	00:00:00:26.102578	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
0,262	\$\$SYSTEM	00:00:00:12.923628	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
0,270	\$\$SYSTEM	00:00:00:07.385798	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
1,281	\$GHS1	00:00:00:05.188339	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
0,269	\$\$SYSTEM	00:00:00:03.734459	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
1,289	\$GHS1	00:00:00:03.064489	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
0,279	\$DSMSCM	00:00:00:02.260988	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
1,266	\$DSMSCM	00:00:00:02.007498	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
0,281	\$GHS2	00:00:00:01.804199	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
1,282	\$GHS2	00:00:00:00.824118	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
1,268	\$GHS2	00:00:00:00.751793	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
1,284	\$DSMSCM	00:00:00:00.730391	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
1,286	\$\$SYSTEM	00:00:00:00.597720	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
0,294	\$GHS1	00:00:00:00.586099	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
1,290	\$GHS2	00:00:00:00.552873	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
0,295	\$GHS2	00:00:00:00.514669	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
1,291	\$DSMSCM	00:00:00:00.507430	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	
0,296	\$DSMSCM	00:00:00:00.491203	0.00	\$\$SYSTEM.SYS00.TSYSDP2	220	

Installation:

ShowSys does not need to become installed: It can be run from any location.

Security Settings:

ShowSys does not run any licensed code, it runs on application level. The GUARDIAN Security should be set to: "OONO"
The owner can be anybody, but the 'system.owner' is preferred.

In case you

- like the tool, or
- find a bug or glitch, or
- have a request for enhancement:

Please let me know!

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