

Tools for Measuring System and Application Performance



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GlancePlus Command Line “Adviser Mode”

Glance in Adviser Mode

Why use it?

- Ideal for monitoring long running processes
 - Can leave running for long periods
 - Can control frequency of data gathering
 - Can analyze data at a later time
 - Can correlate poor performance with system state
- Easy way of doing initial remote-diagnosis
 - User just needs to run the easy command line
 - Send ASCII file back for analysis

Glance in Adviser Mode Command

```
/opt/perf/bin/glance -adviser_only -syntax  
adviser_commands -j 5
```

- Samples every 5 seconds (you can specify)
- Uses the commands in *adviser_commands* file

Glance in Adviser Mode

Example: *adviser_commands* file

```
// File name: adviser_commands
```

```
// Date: August 15, 2001
```

```
//
```

```
// Instructions:
```

```
// 1. Modify the value below to which you will compare the process names.
```

```
// 2. On a system with Glance installed in /opt/perf/bin, execute the
```

```
// following command:
```

```
// /opt/perf/bin/glance -adviser_only -syntax adviser_commands -j 5 >  
ga.out
```

```
// You may wish to reduce or increase the time between sampling.
```

```
// Header for each sample
```

```
PRINT "----- ", gbl_stattime,
```

```
" (proc name, pid, cpu, negnice cpu, VSS, RSS, thread #, I/O)"
```

Glance in Adviser Mode

Example: *adviser_commands* file

```
// Alarm conditions for swap and nfile exhaustion
```

```
if gbl_swap_space_util > 90 then {
```

```
    PRINT "***** System swap space is nearly full!! *****"
```

```
    PRINT "Swap space utilization: ", gbl_swap_space_util
```

```
}
```

```
if tbl_file_table_util > 90 then {
```

```
    PRINT "***** System file table is nearly full!! *****"
```

```
    PRINT "File table utilization (nfile): ", tbl_file_table_util
```

```
}
```

```
// Standard message for swap and nfile utilization
```

```
PRINT "Swap space utilization: ", gbl_swap_space_util|3|0, "% ",
```

```
" nfile utilization: ", tbl_file_table_util|3|0, "%"
```

Glance in Adviser Mode

Example: *adviser_commands* file

```
// Loop over each process on the system
```

```
// Do the "top" command to find the name of the processes which
```

```
// you are interested in monitoring. Change the name of the value
```

```
// in quotes to which you are comparing with the proc_proc_name:
```

```
PROCESS LOOP {
```

```
  if proc_proc_name == "java" then {
```

```
    PRINT proc_proc_name|8|0,
```

```
      proc_proc_id|8|0,
```

```
      proc_cpu_total_util|8|2,
```

```
      proc_cpu_nnice_time|8|2,
```

```
      proc_mem_virt,
```

```
      proc_mem_res,
```

```
      proc_thread_count,
```

```
      proc_io_byte_rate
```

```
  }
```

Glance in Adviser Mode

Sample Output

----- 20:15:37 (proc name, pid, cpu, negnice cpu, VSS, RSS, thread #, I/O)

Swap space utilization: 42% nfile utilization: 6%

bin	6390	93.33	0.00	787.9mb	389.7mb	2438	0.0
-----	------	-------	------	---------	---------	------	-----

bin	6370	88.66	0.00	788.9mb	308.3mb	2444	0.0
-----	------	-------	------	---------	---------	------	-----

----- 20:15:38 (proc name, pid, cpu, negnice cpu, VSS, RSS, thread #, I/O)

Swap space utilization: 42% nfile utilization: 6%

bin	6390	80.00	0.00	793.8mb	389.7mb	2482	0.0
-----	------	-------	------	---------	---------	------	-----

bin	6370	74.66	0.00	794.7mb	308.3mb	2488	0.0
-----	------	-------	------	---------	---------	------	-----

[...]

VSS INCREASING!!

Glance in Adviser Mode Summary

- Easy to use, quick method for tracking:
 - CPU usage
 - Memory usage
 - Thread number
 - Usage of system resources:
 - Swap
 - File handles
- Makes the initial remote-diagnosis easy