

Subject: MCR-10060, Add referenced example to total_time_meters.info

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Date: May 25, 2019

Problem Description

The info segment >doc>privileged>total_time_meters.info includes this text:

Several of the overhead task names are indented, to indicate that they are part of the preceding, non-indented task. The percents for these indented tasks are also included in the percent for the preceding task. That is, in the example at the end of this description, page faults used 1.49% of system CPU time; 0.14% was used by PC Loop Locks, and the remaining 1.35% was used by other page fault overhead.

Note the reference to the “example at the end of this description”. That example is missing from the info segment. The documentation for the total_time_meters command, in GB64-00 is identical to that in this info segment, but does include the example.

This MCR proposes adding a last “Examples” section to the info segment that incorporates the example from the manual. Note that while there is only one example, validate_info_segment says the section name should be “Examples”.

Ticket <http://multics-trac.swenson.org/ticket/118> describes this issue.

Proposed Changes

The proposed change is to add the following to the end of the info segment:

Examples: The following is an example of the information printed when the total_time_meters command is invoked with no control argument.

```
Total metering time 91 :33:53
      %      %NI      AVE
Page faults      1.49    4.28  2301.466
  PC Loop Locks  0.14    0.41  3439.733
PC Queue         0.17    0.49   306.381
Seg Faults       0.84    2.40  9628.827
Bound Faults     0.05    0.14 15850.365
Interrupts       2.66    7.61 1959.442
Other Fault      3.17    9.07
  Getwork        1.49    4.27   638.160
    TC Loop Locks 0.08    0.24   309.842
    Post Purging  0.09    0.25   790.584
MP Idle          0.20    0.58
Work Class Idle  0.09    0.26
Loading Idle     0.02    0.05
NMP Idle         36.36
Zero Idle        28.72
Other Overhead   0.10    0.29
Virtual CPU Time 26.13  74.84
```

A comparison of the installed info segment and the proposed changed version follows:

```
cpa >doc>privileged>ttm.info ==

A1          02/28/85  total_time_meters, ttm
Changed by B to:
B1          2019-02-28  total_time_meters, ttm

Inserted in B:
B196
B197
B198      Examples:  The following is an example of the information printed when
B199      the total_time_meters command is invoked with no control argument.
B200
B201      Total metering time 91 :33:53
B202      %          %NI          AVE
B203      Page faults      1.49      4.28      2301.466
B204      PC Loop Locks    0.14      0.41      3439.733
B205      PC Queue         0.17      0.49      306.381
B206      Seg Faults       0.84      2.40      9628.827
B207      Bound Faults     0.05      0.14      15850.365
B208      Interrupts       2.66      7.61      1959.442
B209      Other Fault      3.17      9.07
B210      Getwork          1.49      4.27      638.160
B211      TC Loop Locks    0.08      0.24      309.842
B212      Post Purging     0.09      0.25      790.584
B213      MP Idle          0.20      0.58
B214      Work Class Idle  0.09      0.26
B215      Loading Idle     0.02      0.05
B216      NMP Idle         36.36
B217      Zero Idle        28.72
B218      Other Overhead   0.10      0.29
B219      Virtual CPU Time 26.13      74.84
At end

Comparison finished: 2 differences, 26 lines.
r 15:07 0.237 1
```

Documentation

No documentation is required.

Testing

No testing required other than validating the info segment with validate_info_seg.

Version History

Date	Revision	Author	Comment
2019-05-25	1.0	Eric Swenson	Initial revision of the MCR.