pScheduler
Hands-On

ASTRON perfSONAR training

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24-26 September 2018

Ping, troubleshoot and task

- Run the pscheduler ping command
  - `pscheduler ping mp10`

- Run the pscheduler troubleshoot command to another MP
  - `pscheduler troubleshoot mp10`

- Run the pscheduler clock command

  - `pscheduler task clock --dest mp10`

- Run throughput test to another MP
  - `pscheduler task throughput --dest mp10`
  - `pscheduler task throughput --source mp03 --dest mp10 -u`

- Run latency test to another MP
  - `pscheduler task latency --dest mp10`
  - `pscheduler task latency --source mp03 --dest mp10 --ip-version 6`

- Try your own…

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Advanced tasks, getting help and limits

- Debugging
  - `pscheduler task –debug latency --source mp03 --dest mp10`

- Getting help
  - `pscheduler`
  - `pscheduler task --help`
  - `pscheduler task latency --help`

- UDP throughput limits
  - `pscheduler task throughput --source mp03 --dest mp10 -u -b 200M`
  - Limited to 50M because of /etc/pscheduler/limits.conf

Checking the schedule

- List
  - `pscheduler schedule +PT1H | less`
- Live
  - `pscheduler monitor`
- Plot
  - `pscheduler plot-schedule > /var/www/perfsonar/workshop/schedule.png`
  - https://mpXY.perfsonar.utr.surfcloud.nl/perfsonar/workshop/schedule.png

BWCTL to pScheduler

- More examples at https://fasterdata.es.net/performance-testing/network-troubleshooting-tools/pscheduler