

NAME

lt_info – Laser Traffic Information.

SYNOPSIS

/usr/local/bin/lt_info [OPTIONS]

-h tcshostname	IRTF TCS Hostname. Default is stefan
-o outfile	Dynamic pointing data written to this file. Default is: /htdocs/Facility/LaserTraffic/tcs_data.txt
-u seconds	Update Interval in seconds. Default: 15 seconds
-f fov	Field of view (diameter in degrees). Default: 0.0334 degrees (2 arc minute).
-i { no yes }	Value for LASER_IMPACTED field. Default is yes.
-l { off on }	Value for LOG_DATA field. Default is on.
-v { off on }	verbose option. Default is Off.

DESCRIPTION

Lt_info, or Laser Traffic Information, is the IRTF application that generates the URL pointing data needed by the Laser Traffic Control System (LTCS). The LTCS is a joint effort by the Mauna Kea Observatories to coordinate laser traffic and minimize laser impact on other users. The lt_info outputs data that conforms to the LTCS URL Interface Specification, version 1.1.

To start the lt_info, open a terminal window (ie: xterm) and type the command `lt_info`. The Telescope operator is expected to modify the fov, Laser_impacted field based on the current observing situation. As the observing situation changes during the night, the program needs to be stopped and restarted. The Telescope Operator can check the output by monitoring the tcs_data.txt file off the IRTF Laser Traffic web pages.

To exit the application, type Control-C in the terminal window. The application will then set the LASER_IMPACTED field is set to NO, then the pointing data is written out one final time before exiting.

The lt_info command should be started when the TCS is online. And terminated just before shutting down the TCS. To adjust parameter during the night, terminate lt_info, and restart with the correct parameter option.

Lt_info relies on the TCS daemon for telescope information. So the daemon needs to be in online also.

Additional documentation is located on the IRTF laser traffic web page:
<http://www.irtfweb.ifa.hawaii/Facility/LaserTraffic>

OPTIONS

-h tcshostname	Specifies the tcshostname. The default is stefan.
-o outfile	The Dynamic pointing data is written to this file. It is intended that this output file be assessable from the web to allow the LTCS to monitor the IRTF position.
-u seconds	The update interval in second. How often the TCS is queried and the output file updated.
-f fov	Field of view. Allows the user to specify the FOV. The FOV is expressed in degrees and represent the diameter. Deg = arcseconds / 3600.

60 arcsec = 0.0167 degrees
100 arcsec = 0.0278 degrees
200 arcsec = 0.0556 degrees

- i { no | yes } Value for the LASER_IMPACTED field. Details of this parameter can be found in the LTCS URL Interface Specification.
- l { no | yes } Value for the LOG_DATA field. Details of this parameter can be found in the LTCS URL Interface Specification.
- v { no | yes } If TRUE, verbose output to stdout is enabled.

EXAMPLES

- % lt_info Starts lt_info using all defaults: Fov=0.0334, LASER_IMPACTED = YES.
- % lt_info -f 0.0556 -i no Starts lt_info with FOV = 0.0556 degrees (200 arcsec) and LASER_IMPACTED = NO