creo TechPlanet

Manta

Diagnostic Commands (MCE) - Quick Reference

Imaging & Media | Operations | Parameters | Sensors & Cables | Subsystems | Statistics



Index to Common MCE Commands

abort	drum	list	resume
access	edge	load	rollers
backbone	eject	mask	scan
balance weight	engine	media	set
cancel	flyoff	plot	status
carriage	init	prm	tec
debris removal	lec	release	unload
			verbose

Operations

init

Initializes the loading/unloading hardware.

load

Loads plates on the drum.
The sequence of load operations is:

1. Type `load 1000 770` (if the plate has a mainscan of 1000mm and a subscan of 770mm)
   or Type `load 1000 770 305` (if the plate has a mainscan of 1000mm, a subscan of 770mm, and a thickness of 305 microns)
2. Put the plate on the table.
3. Slide the plate into the LECs.
4. Check the plate registration.
5. Push the Start button after plate is registered.

unload

Unloads media from the drum

abort

- `abort` - aborts all running processes
- `abort clear` - clears abort

cancel

Cancels the job. If the machine is loading a plate, the load completes and the media is left on the drum. Otherwise, the current operation is suspended.

eject
Cancels the job and unloads the plate.

resume
Tries the operation again (recovery from a suspend condition).

release
Releases the media from its current suspend (replaces the MPE command 'clear').

Subsystems

backbone
- `backbone` - displays status of the backbone
- `backbone forward/centerback` - moves the backbone forward/centerback

balance weights
- `balancer` - displays balance weight system status
- `balancer extendaway` - extends the away side balance weight actuator balancer
- `balancer retracthome` - retracts the home side balance weight actuator
- `balancer extendhome` - extends the home side balance weight actuator
- `balancer retractaway` - retracts the away side balance weight actuator

carriage
- `carriage idle/init/stop` - idles, initializes, or stops the carriage
- `carriage move 100` - moves the carriage at speed 100 mm/sec
- `carriage moveto 100` - moves the carriage to 100 mm

debris removal
- `debris` - displays debris removal status
- `debris airjet on|off` - turns the air jet on or off
- `debris all off` - turns off all running debris options
- `debris blower on|off` - turns the blower on or off

engine
- `engine step enable|disable` - enables/disables single stepping
- `engine time` - measures actuators time

lec
- `lec on|off` - moves the leading edge clamps on/off the drum

tec
- `tec getclamp park` - gets tec from park position
- `tec getclamp saved` - gets tec from saved drum position
- `tec putclamp park` - puts the tec on the drum in the park position

rollers

- `roller on|off` - moves the rollers on/off the drum

Imaging & Media

edge

- `edge test` - starts the edge detect procedure
- `edge stop` - aborts the edge detect procedure

media

- `media` - displays current media settings
- `media <number>` - selects media using number
  Example: `media 1`- selects media 1
- `media types` - displays supported media types

plot

- `plot 12 20 50` - generates plot 12 (solid pattern). 20 mm is subscan size and 50 mm is mainscan size
- `plot list` - displays available test plots
- `plot shift` - displays shift status
- `plot shift 20 50` - sets subscan shift to 20mm and mainscan shift to 50mm
- `plot stop` - stops the plot

Sensors & Cables

mask

- `mask` - displays the flags that are currently masked
- `mask all` - displays all status flags
- `mask on|off <flag#>` - masks the flag on/off

scan

- `scan bstatus` - shows everything currently bypassed
- `scan groups` - shows all I/O groups

  & indicates the 'presence detect' signal (under the Bit Name)
  ~ indicates that the signal is inverted in firmware (under the State Group)
  x indicates that the element is bypassed (under the State Group)
  b indicates that the element is bypassable (under the State Group)

- `scan p` - shows the status of all elements beginning with "p"
- `scan presence` - shows all presence bits
- `scan ps_&loadtable1 bon` - bypasses the load table sensor (`boff` - bypass off)

flyoff

- `flyoff` - displays flyoff status
- `flyoff clear` - clears flyoffs

Parameters

set

carriage	media
debris	mh
drum	mode
edge	prd
gc	statuslights
mds	

Examples:

- `set <subsystem> limit` - shows the allowable parameters range
- `set <prd> <serialnumber>` - prd-product specific task
- `set mh leclamppos 90` - mh-media handler task (drum position for moving lec up/down)
- `set prd customer name`
- `set mds lastsubscan` - subscan of the last plate (mds- media scheduler)
- `set edge drumpos` - edge position (nvs-set drum epos)
- `set carriage mtravel` - carriage max travel distance
- `set media 1 debrisoptions 1` - only airjet DR enabled
- `set media 1 debrisoptions 3` - airjet and DR are enabled

prm

- `prm all` - shows all parameters (same as old MPE command 'NVS dump')
- `prm diff` - shows non-default parameters
- `prm group` - lists all parameter groups
- `prm hazardous media enable` - media parameters are password-protected so that customers may not go in and change power and drum speed.
- `prm saveall` - saves all parameters

Statistics and Information

access

- `access` - displays access level
- `access dev` - enables developer access (high level)
- `access expert` - enables expert access (middle level)
- `access field` - enables field access (low level)

list

- `list serial` - displays machine serial number
- `list version all` - displays all available component versions

status

- `engine` - displays the status of all media handling subsystems
- `gc` - displays the status of current geometric correction
- `fans` - displays the status of the fans
- `loaded` - displays the status of media on the drum

- `loaded force` - forces the media on the drum
- `loaded force none` - forces the media off the drum
- `mce version` - displays the MCE version
- `product` - displays product specific constants
- `safety` - displays the status of the safety loop
- `scheduler` - displays media scheduler status
- `suspend` - displays current suspend info
- `system` - provides system pressure

verbose

- `verbose off mdh` (or `vbs off mdh`)- disables verbose level for subsystem MDH
- `verbose on|off` - lists subsystems with verbosity enabled/disabled
- `verbose user` - displays the current level of verbosity
  Machines are shipped with verbose user customer level. Higher levels will slow down the machine performance. Use these levels only for troubleshooting.
  - `verbose user customer` - high-level info about general machine operation
  - `verbose user debug/dbg` - very detailed info, mainly for developers
  - `verbose user expert/eng` - detailed info about what is happening inside the machine
  - `verbose user service` - basic info about what is happening inside the machine

Last updated: 28 Feb 2003

Copyright © 2003 Creo Inc. All rights reserved. **Confidential**. Back to top.

Print | Close