

JagTest1 Commands

Version V1.7

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Begin_LOG command

Syntax => "blog<log_file_name>"

Description:

This operation opens a file that logs commands and status. If the named file already exists then it will be overwritten.

BusReSeT command

Syntax => "brst"

Description:

This operation forces a 1394 bus reset.

CALib_Finger command

Syntax => "calf <handle> <scan_mode> <frames>"

Description:

This operation grabs a finger calibration image, accumulating the given number of frames.

CALib_Hand command

Syntax => "calh <handle> <scan_mode> <repeats>"

Description:

This operation grabs a hand calibration image, accumulating the same line the given number of times.

CALib_Slap command

Syntax => "cals <handle> <scan_mode> <frames>"

Description:

This operation grabs a slap calibration image, accumulating the given number of frames.

CALib_Palm command

Syntax => "calp <handle> <scan_mode> <frames>"

Description:

This operation grabs a palm calibration image, accumulating the given number of frames.

CALibrate_Cameras command (not applicable to TP-3800)

Syntax => "calc <optics> <serial number> [<directory>]"

Description:

Calibrate the cameras. Optics can be 'redwood', 'apollo', 'guardian', 'sentinel_u', 'sentinel_f', 'safeguard', 'sentinel_cbp', TP4101, 'hercules', or 'paladin'. Calibration

results may be saved to the specified directory. The serial number should not exceed 9 digits.

Calibrate_FLEXure command (TP-5300)

Syntax =>"cflex <optics> <serial number> [<directory>] "

Description:

Calibrate the flexure. Optics can be 'paladin'. Calibration results may be saved to the specified directory. The serial number should not exceed 9 digits.

CAMera_Read command (not applicable to TP-3800)

Syntax => "camr <camera> <register>

Description:

This command reads the contents of a register on the Micron camera board.

CAMera_Write command (not applicable to TP-3800)

Syntax => "camw <camera> <register> <value>

Description:

This command modifies the contents of a register on the Micron camera board.

CAPture_Finger command

Syntax =>"capf <handle> <scan_type> <scan_mode>"

Description:

This operation starts the finger capture process on the scanner. The operation continues under scanner switch control.

CAPture_Hand command

Syntax =>"caph <handle> <scan_type> <scan_mode>"

Description:

This operation starts the hand capture process on the scanner. The operation continues under scanner switch control.

CAPture_Slap command

Syntax =>"caps <handle> <scan_type> <scan_mode>"

Description:

This operation starts the slap capture process on the scanner. The operation continues under scanner switch control.

CAPture_Palm command

Syntax =>"capp <handle> <scan_type> <scan_mode>"

Description:

This operation starts the palm capture process on the scanner. The operation continues under scanner switch control.

Capture_Wait command

Syntax =>"cw <progress_code> [<tag_offset>]"

Description:

This operation is really only useful in scripts. It tells the tester to wait until a specific capture progress message has been received from the scanner, or until the user enters a blank or CR to abort the wait, or an ESC to exit all levels of scripting. The progress code is the code within the 'capt_info' member of the status message. The message will only be recognized if it arrives with the tag of the most recent command, optionally adjusted by subtracting the tag offset.

Check_Parameters command

Syntax =>"cp <set>"

Description:

Reports the validity of the given set, whether it is saveable in non-volatile storage and, if saveable, whether its current values are from non-volatile storage or have been modified.

CHeck_Flat command

Syntax =>"chkf <handle> <scan_mode> <frames>"

Description:

This operation grabs a normal slap image, accumulating the given number of frames, then gather statistics about the image.

CHeck_Platen command

Syntax =>"chkp <handle> <scan_mode> <frames>"

Description:

This operation grabs a normal finger image, accumulating the given number of frames, then gathers statistics about the image.

CHeck_Roller command

Syntax =>"chkr <handle> <scan_mode> <repeats>"

Description:

This operation grabs a line from the hand scanner, accumulating the same line the given number of times, then gather statistics about the image.

ConFiG_LoCal_Image command

Syntax =>"cglci <hzntl_pos> <vertl_pos> <hzntl_ext> <vertl_ext>"

Description:

The position arguments specify the upper-left corner of a rectangular area reserved for scanned image display. The extent arguments specify the size of that area.

ConFiG_LoCal_Map command

Syntax =>" cfglcm <first_norm> <num_norm> <first_qual> <num_qual>

" -or-

Syntax =>" cfglcm <file>“

Description:

For the first form, sets the grayscale mapping tables to use the indicated ranges of palette indices.

For the second form, reads 512 numeric values from the named file and sets the grayscale mapping tables accordingly. The first 256 values set the normal view table and the other 256 values set the quality review table.

In either case, the local palette must be set to correspond.;

ConFiG_LoCal_Ovly command

Syntax =>" cfglco <overlay_color>“

Description:

The overlay_color defines a specific color index that may be used in the image area to write a cross-hair target, etc.;

ConFiG_LoCal_Palt command

Syntax =>" cfglcp <palette_index> <red_level> <green_level> <blue_level>

" -or-

Syntax =>" cfglcp <bmp_file>

" -or-

Syntax =>" cfglcp <file>“

Description:

For the first form, sets the indexed entry in the local palette to the given color.

For the second form, takes the even palette entries from the BMP file and sets the first 128 entries in the local palette to those colors. The 'wlcd' command writes BMP files to the local display in a manner compatible with this palette setting.

For the third form, takes the palette modification entries from the file. If the first line of the file begins with 'ASCII' then it is an ASCII file. In this case, reads numeric values, four at a time, to prepare palette modification entries in the same way as the first form. If the file does not begin with 'ASCII' then it is a binary file. In this case, each word read from the file is a palette modification entry.

CnTrL_LoCal_Image command

Syntax =>" cttlci <mode>"

Description:

Enables or disables display of a scanned image in the local display area (reserved by the 'cftlci' command). A value of zero disables display and a value of one enables display.

ConFiG_Hand_Speed command

Syntax =>" cftghs <left> <center> <right>"

Description:

Configures the display of overlaid roll-speed information for a hand capture.

CnTrL_ReMote_Image command

Syntax =>" ctmlmi <mode>"

Description:

Enables or disables display of a scanned image in the remote display area (indicated by the 'cftgrmi' command). A value of zero disables display and a value of one enables display.

ConFiG_ReMote_Band command

Syntax =>" cftgrmb <lines>"

Description:

The lines argument specifies the size of a display band. A value of zero selects full frame mode.

ConFiG_ReMote_Image command

Syntax =>" cftgrmi <hzntl_ext> <vertl_ext>"

Description:

The extent arguments specify the size of an area that has been established on the host to display a scanned image.

ConFiG_ReMote_Map command

Syntax =>" cftgrmm <range>

" -or-

Syntax =>" cftgrmm <file>"

Description:

For the first form, sets the grayscale mapping table to use the given number of palette indices, which will range from zero to one less than that number.

For the second form, reads 256 numeric values from the named file and sets the grayscale mapping table accordingly.

In either case, the remote DIB palette must correspond.

ConFIG_LoCal_Dis command

Syntax => " cfglcd <display_mode> "

Description:

Set up the local display. A display_mode of zero turns the display off. A display_mode of one sets it up for 1024x768x8 operation with a 256 level palette. The display is filled with black and the palette is set to all black entries.

Display_Image command

Syntax => " di <handle> <scan_type> <image_type> <quality> <repeats> "

Description:

The display image command instructs the scanner to display the indicated image in the currently configured image display area. The image is displayed at a rate of about 20 fps, and will stop only after the requested number of repetitions (zero is the same as one). If quality is non-zero then a quality image mapping is used for an active local display.;

EEprom_Read command (not applicable to TP-3800)

Syntax => " eer <address> "

Description:

Reads the contents of the eeprom contained within the Micron camera board.

EEprom_Write command (not applicable to TP-3800)

Syntax => " eew <address> "

Description:

Modifies the contents of the eeprom contained within the Micron camera board.

Enable_Sali_Break command

Syntax => " esb [<enableIf1_disableIf0>] "

Description:

SALI is able to generate debug breaks on any error. Normally, this facility is turned off. If this command is entered with no parameter, the breaks will be disabled.

End_LOG command

Syntax => " elog "

Description:

This operation stops logging to a previously begun log file.

ESC command

Syntax =>"ESC"

Description:

This operation exits all pending scripts.

Event_Wait command

Syntax =>"ew <event_code> <state_code> [<tag_offset>]"

Description:

This operation is really only useful in scripts. It tells the tester to wait until a specific status message has been received from the scanner, or until the user enters a blank or CR to abort the wait, or an ESC to exit all levels of scripting. The event code is the main status code. The state code is the main status state. The code will only be recognized if it arrives with the tag of the most recent command, optionally adjusted by subtracting the tag offset.

FileVersion command

Syntax =>" ver "

Description:

Retrieves file versions of JagTest and SALI DLL..

Fill_LoCal_Dispatch command

Syntax =>" flcd <hzntl_pos> <vertl_pos> <hzntl_ext> <vertl_ext> <pixel>"

Description:

Fill the area specified with the pixel specified.

Finish_Finger command

Syntax =>" ff <handle> <scan_type> <scan_mode>"

Description:

This operation allows the finishing algorithm to be executed upon raw finger scanner images (which may be downloaded via the ri command).

Finish_Slap command

Syntax =>"fs <handle> <scan_type> <scan_mode>"

Description:

This operation allows the finishing algorithm to be executed upon raw slap scanner images (which may be downloaded via the ri command).

Free_Image command

Syntax =>"fi <handle> <scan_type> <image_type>;

Description:

The free image command instructs the scanner to release all storage associated with the image.

Get_Camera_Parameters command (TP-3800 only)

Syntax =>"gcp"

Description:

Get current camera parameters from scanner. Retrieves <exposure 1> <gain a1> <gain b1> <offset a1> <offset b1> <exposure 2> <gain a2> <gain b2> <offset a2> <offset b2>

Suffix 1 refers to the settings for the cropped image.

Suffix 2 refers to the settings for the full image.

Exposure - Camera exposure.

Gain A - Channel A Gain.

Gain B - Channel B Gain.

Offset A - Channel A Offset.

Offset B - Channel B Offset.

Get_EQU_image command

Syntax =>"gequ <handle> <scanner>;

Description:

Get a copy of the scanner's equalization reference image ready for upload. The image will have the given handle, the scan type appropriate for the scanner (PLATEN_CALIB, FLAT_CALIB, or ROLLER_CALIB), and EQ_IMAGE for its image data type.

Get_Parameters command

Syntax =>"gp <set> [<format>"

Description:

Gets a set of parameters from the scanner and writes them to the tester's output (which may include a log file). The format is a printf-style conversion specifier used for each parameter value. If no format is given then it uses a %d conversion.

GET_status_LEDs command (TP-4x4A only)

Syntax =>"getled"

Description:

Get each capture status and finger contact LED state.

Grb_Test command

Syntax =>"gt <enable> <value>"

Description:

Enable (1) or disable (0) the grabber test mode. If enabled the value specified will be substituted for all data from the camera at the point where it enters the grabber FPGA

Help command

Syntax =>"? [<operation>]"

Description:

The help command is used to show general information about the tester, or to show details about a particular tester operation. If no operation name is entered, the general information is shown.

KBHit_Enable command

Syntax =>"kbhe <enable_non_zero>;

Description:

Set the variable controlling kbhit checking. In general, this variable should be 1 (its default). It may be set to zero for testing purposes.

Loop_Script command

Syntax =>"ls <script_file_name> [<parm1> <parm2> ...]"

Description:

This operation invokes a script. A script is a file with tester commands in it. Scripts may be nested up to four levels deep. That is, scripts may contain script commands. Scripts may include parameters to be substituted with values on the invocation line. Parameters are referred to via %1 for the first parameter, %2 for the second parameter, etc., in much the same manner as for a .bat file. Scripts end at the end of file. Loop_Script will repeat running the script file until a character is entered from the console to stop the looping. See Script for simple, non-repeating script execution.

Loop_Script_Counted command

Syntax =>"lsc <count> <script_file_name> [<parm1> <parm2> ...]"

Description:

This operation invokes a script. A script is a file with tester commands in it. Scripts may be nested up to four levels deep. That is, scripts may contain script commands. Scripts may include parameters to be substituted with values on the invocation line. Parameters are referred to via %1 for the first parameter, %2 for the second parameter, etc., in much the same manner as for a .bat file. Scripts end at the end of file. Loop_Script_Counted will repeat running the script file until the repetition count is reached or a character is entered from the console to stop the looping. See Script for simple, non-repeating script execution.

NOP command

Syntax =>"nop"

Description:

The NOP operation sends a NOP command to the scanner.

NOPL command

Syntax =>"nopl"

Description:

The NOPLoop operation loops sending NOP commands and receiving command execution status until either a keystroke or an error is found.

Query_CAPture command

Syntax =>"qcap"

Description:

Requests current capture state.

Query_CoMmanD command

Syntax =>"qcmd <tag_id>"

Description:

Requests status of a particular command.

Query_Image_Info command

Syntax =>"qii <handle> <scan_type> <image_type>"

Description:

Requests information about a designated image. This must be done before a Send_Image command to set up the image size.

Query_Image_Qual command

Syntax =>"qiq <handle> <scan_type>"

Description:

Requests information about the quality of a captured image.

Query_SCanners command

Syntax =>"qsc"

Description:

Requests information about the presence of scanning units.

Query_Switch command

Syntax =>"qs <mode> <timeout> <prompt> [<frequency> <duration> ... "

Description:

Requests the switch state after an optional audible prompt. The timeout is the maximum time it will wait for any button or foot-switch to be pressed, in milliseconds; if it is zero then it waits forever. If prompt is zero then there is no audible prompt. Otherwise, it may have one, two, or three tones, each specified by a frequency (Hz) and duration (msec) pair. For mode zero, the prior switch state is not cleared. For mode one, the prior switch state is cleared before the audible prompt and waiting period. For mode two, it simply returns the current switch state immediately, ignoring the timeout and prompt.

Quit command

Syntax =>"q"

Description:

This operation exits the tester.

ReSeT command

Syntax =>"rst"

Description:

The ReSeT operation sends a reset command to the scanner. This is not the same as resetting the 1394 bus.

Recv_Image command

Syntax =>"ri <tiff_file> <handle> <scan_type> <image_type> [<blksize>]"

Description:

The receive image command will get the image information (e.g. height) from the tiff file itself.

Recv_BOOTLoader command

Syntax =>"rbot <uboot file.ubt>"

Description:

The receive boot loader command instructs the scanner to receive the contents of a boot loader image file on the data channel, then record that boot loader image file in the on-board flash memory. The new code will execute at the next scanner boot.

Recv_COFF command

Syntax =>"rcof <coff_file>"

Description:

The receive coff command instructs the scanner to receive the contents of a compressed coff file on the data channel, then record that compressed coff file in the on-board flash memory. This replaces the operating version of the scanner code. The new code will execute at the next scanner boot.

Recv_GUI_Images command

Syntax =>"rguii <GUI image_file>"

Description:

The receive GUI Images command instructs the scanner to receive the contents of a GUI image file on the data channel.

Recv_Oled_Driver_Bd command

Syntax =>" rodb <OLED Driver Board image_file>;

Description:

The receive OLED driver board command instructs the scanner to receive the contents of a OLED driver board FW file on the data channel.

Recv_PCIP command

Syntax =>" rpcip <pcip_file>;

Description:

The receive pcip command instructs the scanner to receive the contents of a pcip programming file on the data channel, then record that pcip programming file in the on-board flash memory. The new code will execute at the next scanner boot.

Recv_IPP command

Syntax =>" ripp <ipp_file>"

Description:

The receive ipp command instructs the scanner to receive the contents of a ipp programming file on the data channel, then record that ipp programming file in the on-board flash memory. The new code will execute at the next scanner boot.

Recv_JFFS2 command

Syntax =>" rjfs <jffs2 file.jfs>"

Description:

The receive JFFS2 file command instructs the scanner to receive the contents of a JFFS2 image file on the data channel, then record that JFFS2 image file in the on-board flash memory. The new code will execute at the next scanner boot.

Recv_KerNel command

Syntax =>" rken <kernel file.knl>"

Description:

The receive kernel command instructs the scanner to receive the contents of a Linux kernel file on the data channel, then record that Linux kernel file in the on-board flash memory. The new code will execute at the next scanner boot.

Recv_RAMdisk command

Syntax => " rram <ram disk file.ram> ”

Description:

The receive RAM disk command instructs the scanner to receive the contents of a RAM disk image file on the data channel, then record that RAM disk image file in the on-board flash memory. The new code will execute at the next scanner boot.

Recv_Color_Norm_Table command (not applicable to TP-3800)

Syntax => " rcnt <NormalizationTable.cc> ”

Description:

Loads the specified normalization table into memory as well as save to camera eeprom.

Review_CAPture command

Syntax => " rcap <choice> “

Description:

This operation allows any capture currently in progress to continue from a host audit. The choice argument indicates the result of the audit.

Reinit_Capture_Task command

Syntax => "rct”

Description:

This operation reinitializes the capture task.

Reset_LOG command

Syntax => "rlog”

Description:

This operation discards the contents of a previously begun log file, then continues logging to it.

ReSeTLoop command

Syntax => "rstl”

Description:

The ReSeTLoop operation will continuously repeat a sequence of operations verifying the ability of the scanner to accept a NOP command, then executing a reset command and related Sali operations. This will loop until a key is struck or an error occurs. It is a very special purpose test.

Restore_Default_Parameters command

Syntax => "rsdp”

Description:

Replaces the current values of saveable parameter sets with default values.

ReStore_Parameters command

Syntax => "rsp"

Description:

Replaces the current values of saveable parameter sets with values read from their non-volatile storage.

SaVe_Parameters command

Syntax => "svp"

Description:

Writes the current values of saveable parameter sets to their non-volatile storage. It first requests confirmation, to which an affirmative reply must be the whole word 'YES'. Any other reply cancels the save operation.

SCaNneR command

Syntax => "scnr <scanner index>"

Description:

This operation selects a scanner. Scanner indices range from zero to the number of available scanners minus one.

Script command

Syntax => "<script_file_name> [<parm1> <parm2> ...]"

Description:

This operation invokes a script. A script is a file with tester commands in it. Scripts may be nested up to four levels deep. That is, scripts may contain script commands. Scripts may include parameters to be substituted with values on the invocation line. Parameters are referred to via %1 for the first parameter, %2 for the second parameter, etc., in much the same manner as for a .bat file. Scripts end at the end of file.

Set_Sali_Timeout command

Syntax => "sst [<asyncPutTimeoutMs> [<asyncGetTimeoutMs>]]"

Description:

When debugging, it may be appropriate to modify timeout values. Normally, these are set to 1s, and that value will be restored if the sst command is entered with no parameters. To set INFINITE timeouts, use 0xffffffff.

SET_status_LEDs command (TP-4x4A only)

Syntax => "setled <cap stat L4> <cap stat thumbs> <cap stat R4> <L4 little> <L4 ring> <L4 middle> <L4 index> <left thumb> <right thumb> <R4 index> <R4 middle> <R4 ring> <R4 little>"

Description:

Set each capture status and finger contact LED to specified state. 0 - Off, 1 - Green, 2 - Red, 3 - Yellow.

Send_Vers command

Syntax =>"sv"

Description:

The Send_Vers operation requests version information from the scanner. Subsequent status displays should show this information.

Send_Image command

Syntax =>" si <tiff_file> <handle> <scan_type> <image_type> [<blksize>]"

Description:

The send image command will explicitly wait for an image transfer response. After receiving the image transfer response, it will setup the tiff file information, and receive the file itself. The blksize parameter is intended for software debugging only and should not normally be used.

Send_Image_Loop_Test command

Syntax =>"silt <in_file> <out_file> <loop_count> [<blksize>]"

Description:

Write the input image to the scanner and then repeatedly reads it back. It compares each image read back to the original. If they differ then it writes the image read back to the output file and posts an error.

Set_Camera_Parameters command (TP-3800 only)

Syntax =>"scp <exposure 1> <gain a1> <gain b1> <offset a1> <offset b1> <exposure 2> <gain a2> <gain b2> <offset a2> <offset b2>"

Description:

Write the new camera parameters.

Suffix 1 refers to the settings for the cropped image.

Suffix 2 refers to the settings for the full image.

Exposure

Camera exposure.

Gain A

Channel A Gain.

Gain B

Channel B Gain.

Offset A

Channel A Offset.

Offset B

Channel B Offset.

Set_EQU_image command

Syntax => "sequ <handle> <scanner>"

Description:

Sets the previously downloaded image as the equalization reference image for the scanner. The image must have the given handle, the scan type appropriate for the scanner (PLATEN_CALIB, FLAT_CALIB, or ROLLER_CALIB), and EQ_IMAGE for its image data type.

Set_Parameters command

Syntax => "sp <set> <parameters>..."

" -or-

Syntax => "sp <file>"

Description:

For the first form, sets the specified parameter set to the given values. The number of values supplied must be appropriate for the parameter set.

For the second form, reads the parameter set and values from the file. If the first line of the file begins with the letters 'ASCII' then it is an ASCII file. Otherwise, it is a binary file. The first numeric value from an ASCII file, or first 32-bit word from a binary file, specifies the parameter set. The remainder of the file contains the parameter values. The number of values in an ASCII file or total size of a binary file must be appropriate for the parameter set.

Set_RESOLUTION command

Syntax => "sres <scanners> <units> <resolution>"

Description:

Sets the resolution of the final output image for the specified scanners.

StatusDelay command

Syntax => "sd [<ms>]"

Description:

Normally, a new operation will not be sought from the script file or from the console until 100ms has elapsed. This delay may be changed by the StatusDelay operation. The delay will always be reported. By entering the StatusDelay operation without a ms value, one may determine the current delay.

Stop_CAPTURE command

Syntax => "scap"

Description:

This operation stops any capture currently in progress.

Tag command

Syntax =>"t [<newtag>]"

Description:

Command tags are normally assigned by the tester and reported when the command is sent. Tag values start at 1 and increment. This command is used to set the tag value for the next command. The tag value will again increment after that next command.

or

The next tag to be used will always be reported. By entering the Tag operation without a newtag, one may determine the next tag to be used.;

TimeOut command

Syntax =>"to [<ms>]"

Description:

Some commands must await a specific status response before they can complete their operation. In such cases, the command will report all status received, including that which is awaited. All such commands will time out after the timeout interval, which defaults to one second. Longer values may be appropriate for debugging. A value of zero will cause all timeouts to be disabled.

Video_START command

Syntax =>"vstart <rows> <columns> [<band-size>]"

Description:

Start the isochronous video stream from the scanner, and the tester facility for receiving and displaying this stream. The size of the expected image must be given. If the band size is omitted or is zero then full frame mode is selected. Otherwise, band mode is selected with the given band size.

Video_STOP command

Syntax =>"vstop"

Description:

Stop the isochronous video stream from the scanner and the tester facility for receiving and displaying this stream.

Wait command

Syntax =>"w [<ms>]"

Description:

This operation is really only useful in scripts. It tells the tester to wait either for a specific number of milliseconds, or until the user enters a keystroke. The user is

informed that he or she may enter a blank or CR to continue, or an ESC to exit all levels of scripting.

Write_LoCal_Dispatch command

Syntax =>" wlcd <bmp_file> <hzntl_pos> <vertl_pos>"

Description:

Write the contents of the BMP file to the local display. In doing this, all pixel values are halved, so that they refer to entries in the lower half of the local palette. (See 'cfiglcp' for setting these entries from a BMP file.);

Write_Local_Ovly command

Syntax =>" wlco <tiffFileName> <hzntl_pos> <vertl_pos>"

Description:

A TIFF file is read and sent to the scanner as an overlay for the fingerprint display area. The coordinates specified define the location of the upper left hand corner of the image.

The entirety of the TIFF file should fit within the fingerprint display area.

Update_Finger_Sensor command

Syntax =>" ufs"

Description:

Forces an update of the finger scanner sensors so that the values in their parameter set are correct.

Xmt_Serial Command

Syntax =>" xs <port> <count> [<byte> ...]"

Description:

Sends \"count\" bytes to port 0 or 1.