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$!=====
$! Summarize Joint Th Measurements
$! by Helen Buie
$! Date: January 26, 2012
$!
$! This script will search thickness histogram files for the
$! mean, SD, and median thickness values and output them to file.
$!=====
$
$ LOCATION := DISK3:[MICROCT.PROJECTS.EUA.MODELS]
$ DIR/COL=1 'LOCATION'*_TH.TXT; /OUTPUT=TMP.TXT
$
$ OPEN/WRITE OUTFILE DISK3:[MICROCT.PROJECTS.EUA.RESULTS]JOINT_TH_RESULTS.TXT
$ WRITE OUTFILE "Patient    TimePoint    Scan    Joint ThMean [mm]    ThSD [mm]    ThMedian [mm]"
$
$ OPEN/READ FILE TMP.TXT
$ READ FILE LINE
$ READ FILE LINE
$ READ FILE LINE
$
$
$ NEXT_FILE:
$!=====
$!Get patient and scan info
$!=====
$ READ FILE LINE
$ IF LINE .EQS. "" THEN GOTO END_EXIT
$
$ PATIENT = F$EXTRACT(0,7,LINE)
$ TIMEPOINT = F$EXTRACT(8,4,LINE)
$ JOINT = F$EXTRACT(18,1,LINE)
$ SCAN = F$EXTRACT(14,1,LINE)

```

Commented [HB1]: Some comments with who wrote the script, when it was written, and what it is for.

Commented [HB2]: This will search for result files that end with "_TH.TXT", in this case thickness histogram files and output the list to a temporary file.

Commented [HB3]: This creates a new text file to store the results.

Commented [HB4]: Here I've added a header in the file for patient details and results that will be compiled.

Commented [HB5]: Open the list of result files and skip the first three lines (which are spaces and directories).

Commented [HB6]: This is the start of a loop to process all the files in the list.

Commented [HB7]: Read the name of the file. If it is empty, then all files have been processed and exit the script.

Commented [HB8]: F\$EXTRACT will extract characters based on position (start, num char, symbol). From the filename we will extract important info.

```

$
$!=====
$!Get Th
$!=====
$ OPEN/READ FILE2 'LOCATION' 'LINE'
$ READ FILE2 LINE_TH_FILE
$ READ FILE2 LINE_TH_FILE
$ READ FILE2 LINE_TH_FILE
$ READ FILE2 LINE_TH_FILE
$ READ FILE2 LINE_TH_FILE
$ READ FILE2 LINE_TH_FILE
$ READ FILE2 LINE_TH_FILE
$ READ FILE2 LINE_TH_FILE
$ READ FILE2 LINE_TH_FILE
$ READ FILE2 LINE_TH_FILE
$ READ FILE2 LINE_TH_FILE
$ MEAN = F$ELEMENT(1,"      ",LINE_TH_FILE)
$
$ READ FILE2 LINE_TH_FILE
$ SD = F$ELEMENT(1,"      ",LINE_TH_FILE)
$
$ READ FILE2 LINE_TH_FILE
$ MEDIAN = F$ELEMENT(1,"      ",LINE_TH_FILE)
$
$!=====
$!Write info to file
$!=====
$
$ WRITE OUTFILE "'PATIENT' 'TIMEPOINT'      'SCAN'      'JOINT'      'MEAN'      'SD' 'MEDIAN'"
$
$ CLOSE FILE2

```

Commented [HB9]: Read the thickness histogram result file to the lines containing the results we are interested in. Note, on itanium computers you can use the /skip=9 to skip 9 lines. A loop could also be setup to read to the line number you want.

Commented [HB10]: The result is parsed from the line, which is tab delimited.

Commented [HB11]: Write out the results extracted for this file.

Commented [HB12]: Close the current file before moving on to the next.

```
$  
$ GOTO NEXT_FILE  
$  
$ END_EXIT:  
$  
$ CLOSE OUTFILE  
$ CLOSE FILE  
$ DEL TMP.TXT;  
$  
$ EXIT
```

Commented [HB13]: Loop back and process the next file in the list.

Commented [HB14]: Close the files being read and written to.

Commented [HB15]: Remove our file list.

Commented [HB16]: End the script.