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CP372 Group 29

Datagram Format and Timing Report

Datagram Format:

Sequence Number	EOF	Buffer Size
Data		

The datagram header is split into three sections each containing four bytes of data. The sequence number contains only the sequence number and with four bytes of data sets the maximum size of a file at 214 GB. The EOF is simply a 1 or a 0, 1 indicating that it is the EOF and a 0 indicating that it is not. The buffer size indicates the size of the buffer, typically 100 until the last datagram where there may not be enough bytes left in the file to fill the buffer, in which case the size will indicate how much of the buffer space is used. The Data contains only the buffer of actual data with a size of 100 bytes.

Timing Report:

	100ms Timeout	500ms Timeout	1000ms Timeout
2 Kb File	93ms	51ms	50ms
128 Kb File	253ms	272ms	369ms
512 Kb File	818ms	717ms	734ms
1 Mb File	1647ms	1423ms	1364ms