Net Calc - NET Header Specifications

Cyber Solutions Development - Tactical

October 26, 2021

1 NET Header

This is the additional network header format that you will be presented with.

1. Be sure to check that the "NET Hdr Size" field is the correct size (48 bytes).

2. Be sure to check that the "File Name Len" field is the correct size (<=24).

Note: All Numbers in this header are Big Endian to conform with network standards.

	Header Size	File Name Len	Total Packet Size	File Name
Length (Bytes)	4 Unsigned Big Endian	4 Unsigned Big Endian	8 Unsigned Big Endian	32 Unsigned Char
Purpose	The size of the Net Header (Should be 48)	The length of the filename (<=24)	Total Length of the Net Header and EQU Packet	String containing file name (max len 24 chars)
START OF EQU HEADER				

This Header is designed to provide the minimal amount of network overhead required while not modifying the underlying FileCalc spec. Everything in the EQU Header and EQU File (including endianness) remain exactly how they are specified in FileSpec.

On a successful conversion, the Server will generate an appropriate NET Header, followed by the normal FileCalc Solved output.

On an error in Parsing the NET Header or EQU Header, the Server will generate a NET Header with a "File Name Len" of 0, a "File Name" of "", and no FileCalc packet.

On an error in Parsing in the Equations, the Server will handle these in the manner specified in the FileCalc spec (set appropriate error flags, continue).