

Re: File transfer protocol for Radio Links

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On 17 Feb 2005 02:01:59 -0800, esamsalah@gmail.com wroth:

>What is the most suitable file transfer protocol when using HF,VHF
>radio link with a digital modem.
>
>I tried the Zmodem with crash recovery in MS Hyper Terminal to transfer
>relatively small files but the transmission fails at the first bad
>packet
>
>But I should restart the transfer every time
>

You don't have to restart the whole transfer for a single failed packet. Make up your own protocol. Divide the file up into packets that aren't too long. Add a message number and a packet number to the front of the packet and calculate a checksum for each packet and send that at the end. Wait for the receiving end to acknowledge each packet. If the packet gets corrupted, then the receiving end sends a nak or negative acknowledge. If you don't get anything back or if you get a nak, then you re-send the packet until it gets through.

Jim