Porting a File between Systems

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Does FTP convert a text file to the recipient's format?

A file created with a text editor, when the user hits ENTER after each line, here's what gets put in the file \rightarrow on WINDOWS: 2 characters, <LF> & <CR>, are inserted (as the line-separator) on LINUX: the ' \n' (newline = linefeed = \n') character is inserted (as the line-separator) on UNIX: the '\n' (newline = linefeed = <LF>) character is inserted (as the line-separator) on VMS: the "N-bytes-in-line" count (as a 16 bit int) precedes each line of N characters If a text file created on one system (say, VMS) is copied to another system (say, Unix), will the file get CONVERTED to the recipient's format? - using **ASCII** ("A") transfer mode
- using **BINARY** ("B") transfer mode

→ text file gets converted to a
→ text file is NOT converted → text file gets converted to appropriate format - it's an EXACT byte-by-byte transfer ----- VMS -----VMS> type video.txt 046ROBIN HOOD MILLER, K PCOSTNER, K FRIEDMAN, M DR 8405995 070JACKSON GRATA, D RGALL, A PRINTER, B THF09901000 VMS> dump video.txt BYTE-COUNTS 20444F4F 48204E49 424F5236 34300047 G.046ROBIN HOOD 000000 50202020 4B202C52 454C4C49 4D202020 MILLER, K P 000010 ← 0047 hex = 71 decimal 46202020 20204B20 2C52454E 54534F43 COSTNER, K F 000020 52442020 20204D20 2C4E414D 44454952 RIEDMAN, M DR 000030 4A303730 00470035 39393530 34382020 8405995.G.070J 000040 ← 0047 hex 41524720 20202020 20204E4F 534B4341 ACKSON GRA 000050 ----- UNIX ------UNIX> ftp kanga.cc.wmich.edu (kanga... = vms, default is "A" mode transfer) ftp> get video.txt UNIX> cat video.txt 046ROBIN HOOD MILLER, K PCOSTNER, K FRIEDMAN, M DR 8405995 070JACKSON GRATA, D RGALL, A PRINTER, B THF09901000 UNIX> od -c video.txt 0 4 6 R O B I N 0000000 0000020 M I L L E R , P C 0 0000040 S T N E R , K F R 0000060 E D M A N , M D R 0000100 8 4 0 5 9 9 5 \n 0 7 0 J A C K F R I G R A T A , 0000120 O N UNIX> od -x video.txt 0000000 3034 3652 4f42 494e 2048 4f4f 4420 2020 0000020 204d 494c 4c45 522c 204b 2020 2050 434f 0000040 5354 4e45 522c 204b 2020 2020 2046 5249 0000060 4544 4d41 4e2c 204d 2020 2020 4452 2020 0000100 3834 3035 3939 350a 3037 304a 4143 4b53 ← 0afor ' \n'

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0000120 4f4e 2020 2020 2020 2047 5241 5441 2c20