

SWAPO - PROGRAM TO BYTE-SWAP HIS-, DRR- AND SPK-FILES

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The internal byte order of 16-bit and 32-bit integers on DEC machines is different (reversed) from that on most other platforms (SUN, IBM, etc.). When integer binary data are moved between DEC and non-DEC platforms, it is necessary to do either a half- or full-word byte-swap (depending on whether the data is 16- or 32-bit) in order to achieve platform compatibility. ASCII data are not byte-swapped. SPK-files contain both ASCII and 32-bit integers, HIS-files can contain both 16- and 32-bit integers and the associated DRR-files contain ASCII, 16- and 32-bit integers. Therefore, the file being byte-swapped must be interpreted in order to process it correctly. For this reason, the associated DRR-file must be present and in the same byte-order as the HIS-file in order for the HIS-file to be transformed correctly. Program SWAPO has been written for this purpose and tested on the DEC station, DEC Alpha, and SUN platforms.

Command List:

Test	name.spk	;Tests name.spk for compatibility with current platform
Swap	name.spk	;Byte-swap name.spk
Test	name.his	;Tests name.drr for compatibility with current platform
Swap	name.his	;Byte-swap name.drr & name.his
Test	name.drr	;Tests name.drr for compatibility with current platform
Swap	name.drr	;Byte-swap name.drr

Location of Executables:

/usr/hhirf/swapo ;On mips and alphas

/usr/users/milner/Dswapo/swapo ;On ler014

Note: Byte swapping is in place