Subject: Re: Tape drives and Sun UNIX
Posted by landsman on Wed, 23 Mar 1994 05:45:00 GMT
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In article <2mni0u$72u@paperboy.gsfc.nasa.gov>, dug@aol7.wff.nasa.gov (Doug Vandemark 2038) writes...
>
> An Idl I/O question:
> Is it possible to read data from a tape device
> under the SUN 4.1.1 OS (UNIX) by using standard
> IDL IO functions open,read etc..?
>
This doesn't exactly answer your question but Bill Thompson has written IDL
procedures that use the IOCTL function (so you need IDL V3.0 or later) to
emulate the intrinsic VMS IDL tape I/O procedures TAPWRT, TAPRD, REWIND,
SKIPF, etc.   The procedures are available via anonymous FTP from
idlastro.gsfc.nasa.gov in the pro/tape_io directory (see the README file
there).

I know that these procedures will work on our SparcStation running Sun 4.1.1.

Wayne Landsman   landsman@stars.gsfc.nasa.gov

Subject: Re: Tape drives and Sun UNIX
Posted by knipp on Wed, 23 Mar 1994 08:53:09 GMT
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In article 72u@paperboy.gsfc.nasa.gov, dug@aol7.wff.nasa.gov (Doug Vandemark 2038) writes:
>
> An Idl I/O question:
> Is it possible to read data from a tape device
> under the SUN 4.1.1 OS (UNIX) by using standard
> IDL IO functions open,read etc..?
>
> I've made some fledging attempts with no success.
>
> Thanks for any information.

Try using

 OPENR, /NOSTDIO   and
 READU, TRANSFER_COUNT=TRANSFER_COUNT

where TRANSFER_COUNT equals the number of elements to read,   NOT
the number of bytes.

Hope this helps, Karl

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   __ ____  __
  / // _ \// / Karlheinz Knipp          phone:  +49 511 - 762 4922
 / // /_/ // /  University of Hannover      fax:  +49 511 - 762 2483
/ // ____// /   Institute for Photogrammetry
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```

Subject: Re: Tape drives and Sun UNIX
Posted by olsen on Wed, 23 Mar 1994 15:49:16 GMT
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In article 72u@paperboy.gsfc.nasa.gov, dug@aol7.wff.nasa.gov (Doug Vandemark 2038) writes:
>
> An Idl I/O question:
> Is it possible to read data from a tape device
> under the SUN 4.1.1 OS (UNIX) by using standard
> IDL IO functions open,read etc..?
>
 I've done it on my sgi - just treated '/dev/tape' as a fileneame,
 and had no problem doing the following:
 openw, 2, 'filename'
 printf, 2, ...
 close, 2

 openr, 2, 'filename'
  readf,2, ...
 close, 2

this was with the built in DAT drive - i have not tried the sun cartridge tape

rc olsen

Subject: Re: Tape drives and Sun UNIX
Posted by knipp on Thu, 24 Mar 1994 08:19:54 GMT
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In article qhn@nps.navy.mil, olsen@physics.nps.navy.mil (Chris Olsen) writes:
> In article 72u@paperboy.gsfc.nasa.gov, dug@aol7.wff.nasa.gov (Doug Vandemark 2038)
writes:
>>
>> An Idl I/O question:

>> Is it possible to read data from a tape device
>> under the SUN 4.1.1 OS (UNIX) by using standard
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> I've done it on my sgi - just treated '/dev/tape' as a fileneame,
> and had no problem doing the following:
>   openw, 2, 'filename'
>   printf, 2, ...
>   close, 2
>
>   openr, 2, 'filename'
>   readf,2, ...
>   close, 2
>
> this was with the built in DAT drive - i have not tried the sun cartridge tape
>
> rc olsen
>

I did the same, but it did NOT work when reading/writing records
exceeding 8 kb. However it will work with
openr, unit, '/dev/rst1', /get_lun, /nostdio
readu, record, transfer_count=transfer_count

Karl

_____
_____

  __ ____ __
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