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Subject: Re: AXP VMS IDL problem with Control\_C?  
Posted by [gurman](#) on Fri, 24 Feb 1995 12:48:39 GMT  
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In article <23FEB199510395357@sorbet.gsfc.nasa.gov>,  
landsman@sorbet.gsfc.nasa.gov (Wayne Landsman (301)-286-3625) wrote:

> We are having problems with the Control\_C interrupt in VMS IDL running under  
> AXP OpenVMS 6.1. The first time one calls Control\_C it works properly,  
> as a keyboard interrupt returning one to the IDL prompt. But on subsequent  
> calls, it behaves like Control\_Y and aborts one to the \$ prompt. This  
> problem seems to occur under IDL V3.5, V3.6 and V3.6.1c, but didn't occur  
> the old operating system V1.5 and doesn't occur on the Vaxes. The problem  
> can be quite serious as the only way to abort an infinite or long IDL loop is  
> to abort the session.  
>  
> Is anyone else familiar with this problem, and possibly found a solution?

Wayne -

For what it's worth, this behavior seems to follow the second ^C in  
any OpenVMS AXP application, including DEC ones. I wonder if it's an  
(intentional) feature....

Joe Gurman

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| Federal employees are still prohibited from holding opinions while at work. Any opinions  
expressed herein must therefore be someone else's. |

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Subject: Re: AXP VMS IDL problem with Control\_C?  
Posted by [rivers](#) on Sat, 25 Feb 1995 23:59:26 GMT  
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>  
>> We are having problems with the Control\_C interrupt in VMS IDL running under  
>> AXP OpenVMS 6.1. The first time one calls Control\_C it works properly,  
>> as a keyboard interrupt returning one to the IDL prompt. But on subsequent  
>> calls, it behaves like Control\_Y and aborts one to the \$ prompt.

> For what it's worth, this behavior seems to follow the second ^C in  
> any OpenVMS AXP application, including DEC ones. I wonder if it's an  
> (intentional) feature....  
>

That is certainly not universally true. All the applications I have written, which originally ran on VAX/VMS and now run on AXP/VMS, handle ^C just fine. I did not recode anything when recompiling on AXP. You have to be aware of the (documented) way the ^C handler works. You need to redeclare the handler after each ^C. For those interested I am appending the routines I use. Routine `set_control_c()` must be called again each time from the `ast_routine` if it is desired to treat multiple ^Cs the same way.

What DEC applications treat ^C differently under AXP/VMS from VAX/VMS?

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```
SUBROUTINE clear_control_c
IMPLICIT NONE
CALL set_control_c(0)
RETURN
END
```

```
SUBROUTINE set_control_c(ast_routine)
```

- c Routine to declare an AST routine to be entered on ^C.
- c Modified by MLR 17-NOV-1991 to return harmlessly if `SYSS$INPUT` is not a
- c terminal.

```
IMPLICIT NONE
INCLUDE '($iodef)'
INCLUDE '($DVIDEF)'
INTEGER istat, channel, sys$assign, sys$qiow, ast_routine
INTEGER LIB$GETDVI
```

```
LOGICAL first_time/.true./
LOGICAL terminal_device
```

- c IF (first\_time) THEN
- first\_time = .false.
- istat = sys\$assign('sys\$input', channel,,)
- IF (.NOT. istat) CALL lib\$signal(%val(istat))
- c Find out if `SYSS$INPUT` is a terminal
- istat = LIB\$GETDVI(DVI\$\_TRM,,'SYSS\$INPUT', terminal\_device)
- IF (.NOT. istat) CALL LIB\$SIGNAL(%val(istat))

```
END IF
```

```
C
```

```
IF (.NOT. terminal_device) RETURN
```

```
IF (ast_routine .NE. 0) THEN
```

```
  istat = sys$qiw
```

```
&      ( ,  
&      %val(channel),  
&      %val(io$_setmode .OR. io$m_ctrlcast),  
&      ,  
&      ,  
&      ,  
&      ast_routine,  
&      ,  
&      ,  
&      ,, )
```

```
ELSE
```

```
  istat = sys$qiw
```

```
&      ( ,  
&      %val(channel),  
&      %val(io$_setmode .OR. io$m_ctrlcast),  
&      ,  
&      ,  
&      ,  
&      %val(0),  
&      ,  
&      ,  
&      ,, )
```

```
END IF
```

```
C
```

```
IF ( .NOT. istat ) CALL lib$signal(%val(istat))
```

```
RETURN
```

```
END
```