## Subject: Re: Catching type conversion errors Posted by steinhh on Tue, 29 Dec 1998 08:00:00 GMT

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Martin Schultz <mgs@io.harvard.edu> wrote:

- > This definitively runs counter what they say in the online help, and
- > should therefore considered a real bug.

Hmm. My online help (v 5.2) states that

Calling CATCH establishes an error handler for the current procedure that intercepts all errors that can be handled by IDL, excluding non-fatal warnings such as math errors.

The key phrase here is \*non-fatal\* warnings. Type conversion "errors" don't halt the program flow (they never have), and are thus not "fatal".

In my view, that makes it a real (even documented) feature :-)

Regards,

Stein Vidar

Subject: Re: Catching type conversion errors
Posted by Martin Schultz on Tue, 29 Dec 1998 08:00:00 GMT
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M. Hegde wrote:
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> Hi,

>

>

> I observe that CATCH doesn't capture type conversion errors (in the absence

- > of ON\_IOERROR command ). This appears to violate the error handling mechanism
- > given in the IDL user's guide. Am I missing something? Are there any other
- > errors which CATCH can not capture?
- > Thanks in advance.
- > -M. Hegde
- > ex:

>

- > PRO test
- > CATCH, err
- > IF (err NE 0) THEN BEGIN
- > PRINT, !ERROR

- > RETURN > ENDIF
- > a = FIX ( 'abc' )

>

same behaviour ...

**END** 

{ mipseb IRIX unix 5.1.1 Jul 20 1998}

This definitively runs counter what they say in the online help, and should therefore considered a real bug.

Martin.

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Dr. Martin Schultz

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Subject: Re: Catching type conversion errors Posted by hegde on Wed, 30 Dec 1998 08:00:00 GMT View Forum Message <> Reply to Message

Stein Vidar Hagfors Haugan (steinhh@ulrik.uio.no) wrote:

: Martin Schultz <mgs@io.harvard.edu> wrote:

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- : by IDL, excluding non-fatal warnings such as math errors.

: The key phrase here is \*non-fatal\* warnings. Type conversion

: "errors" don't halt the program flow (they never have), and

: are thus not "fatal".

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I think math errors are different in the sense that they are system dependent. Type conversion (I/O) errors are IDL supported and seen by ON\_IOERROR. The control flow chart indicates CATCH should see everything that ON\_IOERROR sees. To circumvent this inability of CATCH, one has to use ON\_IOERROR in addition to CATCH; using two blocks of error handlers doesn't sound good to me. Adding to this misery, FIX(") doesn't generate an exception/warning at all!

BTW, how to turn off these error messages? I tried !QUIET; it doesn't work on SGI IRIX or SUN OS.

Regards,

-M. Hegde

Subject: Re: Catching type conversion errors
Posted by Martin Schultz on Wed, 30 Dec 1998 08:00:00 GMT
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> Regards,

> Stein Vidar

>

>

Not quite, I think. If type conversion errors were in fact subsumed under math errors, that would be OK, because then you could catch fatal errors and treat all others with the math error routines. But as it

stands now, you have to handle io errors with on\_ioerror in order to get control over type onversion, which forces you to explicitely handle all other io errors as well (because on\_ioerror superseeds catch). This runs counter the idea of catch I would think. In my oppinion, a good way out would be some /NON\_FATAL keyword to catch which would catch those errors as well, and a FATAL tag in the !ERROR\_STATE structure so that the user can identify the severeness of the error within the catch block.

It may not be a bug, but it's a nuisance anyhow.

Regards, Martin.

Dr. Martin Schultz

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Subject: Re: Catching type conversion errors Posted by steinhh on Thu, 31 Dec 1998 08:00:00 GMT View Forum Message <> Reply to Message

Re-reading my previous post on this subject, I must add that I do agree with Martin Schultz and M. Hegde that the behaviour is a nuisance!

Regards,

Stein Vidar