
Subject: Integer overflows crashes IDL 4.0.1 on HP-UX 10.20
Posted by [Mario van den Ancker](#) on Mon, 23 Jun 1997 07:00:00 GMT
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Hi there,

Our machines have recently been upgraded from HP-UX 10.10 to HP-UX 10.20 and under HP-UX 10.10, IDL (version 4.0.1) responded to an integer overflow (as can for example be generated by the command `i = fix(1.0e+10)`) with a nice message saying:

```
% Program caused arithmetic error: Integer overflow
% Detected at $MAIN$
```

However, under HP-UX 10.20 the same command crashes IDL completely and I get thrown back to the Unix prompt after a bunch of error messages like:

```
(0) 0xc1e19234  FTN_GETARITRAP + 0x1bc  [/usr/lib/pa1.1/libcl.sl]
(1) 0xc1e32550  U_CATCH_ARITHMETIC_TRAP + 0x9dc
[/usr/lib/pa1.1/libcl.sl]
(2) 0xc01310b0  sigreturn  [/lib/libc.sl]
(3) 0xc2298a90  convert + 0x644
[/usr/local/rsi/idl/bin/bin.hp/libidl.sl]
(4) 0xc227208c  IDL_BasicTypeConversion + 0x104
[/usr/local/rsi/idl/bin/bin.hp/libidl.sl]
(5) 0xc2272308  IDL_CvtFix + 0x14
[/usr/local/rsi/idl/bin/bin.hp/libidl.sl]
(6) 0xc22698f0  interpreter + 0x4fc4
[/usr/local/rsi/idl/bin/bin.hp/libidl.sl]
(7) 0xc2159358  IDL_Executive + 0xc4c
[/usr/local/rsi/idl/bin/bin.hp/libidl.sl]
(8) 0xc224b98c  IDL_Main + 0x80
[/usr/local/rsi/idl/bin/bin.hp/libidl.sl]
(9) 0x0000733c  main + 0x5dc  [/usr/local/rsi/idl/bin/bin.hp/idl]
(10) 0xc0061d0c  start + 0x8c  [/lib/libc.sl]
(11) 0x000066b4  $START$ + 0x9c  [/usr/local/rsi/idl/bin/bin.hp/idl]
```

Since we use a lot of programs which occasionally generate such integer overflows (without significantly affecting the outcome of the program under HP-UX 10.10), this basically renders our system unuseable at the moment. Anyone encounter this problem before or knows a solution for it? Any help would be greatly

appreciated.

Thanks in advance for your help,

-- Mario.

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