

two complaints by Intel Fortran

Source: <http://coding.derkeiler.com/Archive/Fortran/comp.lang.fortran/2007-09/msg00113.html>

- *From:* highegg <highegg@xxxxxxxxx>
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when porting a gfortran-developed program to Intel today, I stumbled across two issues:

1. Intel (9.1.040 for AMD/Linux) consider two interfaces incompatible if one has an overridden lower bound for array. Specifically, Intel rejects the following code:

```
module testm
implicit none

contains
subroutine tests(s1)
interface
subroutine s1(a)
real,intent(in):: a(:)
end subroutine
end interface
call s1([1.,2.])
end subroutine

subroutine s2(a)
real,intent(in):: a(0:)
print *,a(0)
end subroutine
end module

program testprg
use testm
implicit none
call tests(s2) ! ERROR
end program
```

g95, gfortran and pathscale accept it. I suppose Intel is wrong, according to 12.2.1.1 of F2003. Or was this different in F95?

2. this happened when compiling an automatically generated source. Intel (as well as g95, gfortran and pathscale) accepts an empty generic interface, but unlike the others it refuses to swallow a PUBLIC spec for it. Source:

```
module testm
```

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```
implicit none  
interface empty  
! nothing here  
end interface
```

```
public empty ! ERROR
```

```
end module
```

is rejected by Intel. I admit this `_really_` is a corner case. I can't figure this out from the standard.

many thanks,
Jaroslav

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