

Re: [CHALLENGE] finding rightmost zero bit

Source: <http://coding.derkeiler.com/Archive/Fortran/comp.lang.fortran/2005-08/msg01131.html>

- *From:* Brooks Moses <bmoses-nospam@xxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Mon, 29 Aug 2005 14:03:42 -0700
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Brooks Moses wrote:

```
if (.not. btest(n, 0))
  pos = 0
elseif (.not. btest(n, 1))
  pos = 1
elseif (.not. btest(n, 2))
  pos = 2
elseif (.not. btest(n, 3))
  pos = 3
elseif (.not. btest(n, 4))
  pos = 4
elseif (.not. btest(n, 5))
  pos = 5
elseif (.not. btest(n, 6))
  pos = 6
elseif (.not. btest(n, 7))
  pos = 7
```

Correction: I'd misread the original program; all of the pos= values in this block need to be incremented by one. Note that, in this version -- unlike the original bart1 -- the incrementing can be done at programming time rather than at runtime, thereby illustrating some of the utility of loop-unrolling. :)

- Brooks

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The "bmoses-nospam" address is valid; no unmunging needed.
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