Subject: Searching for fast linear interpolation routine
Posted by Roger J. Dejus on Fri, 04 Apr 1997 08:00:00 GMT
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Did someone write a fast linear interpolation routine for irregular one dimensional arrays (monotonically ascending or descending abscissas) similar in functionality to the INTERPOL.PRO routine from RSI?

The enclosed test code takes about 1.6 s on a DEC alpha (old = model 3000/400). In reality, the arrays I'm using are of course much larger and the bottleneck is really in INTERPOL.PRO.

Regards, Roger Dejus. (dejus@aps.anl.gov).

```
PRO test6,x,y,xi,yi

x  = findgen(1001)/1000.0*2.0*!pi
y  = sin(x)
xi = findgen(10001)/10000.0*2.0*!pi

t  = systime(1)
yi = interpol(y,x,xi)
print,systime(1)-t

END ; test6
```