
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
