Subject: Re: All day FFT....
Posted by Martin Downing on Thu, 07 Feb 2002 09:15:45 GMT
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"Robert Stockwell" <rgs1967@hotmail.com> wrote in message
news:3C61BC7C.4030904@hotmail.com...
> Paul van Delst wrote:
>
>> Hey there,
>
>
> My guess, regarding slowness, is "Prime Number" (number of points
> in your time series). Try zeropadding up to, or truncating
 down to, a nice factorable number.
> I've attached my hackware factors.pro which will return the
> factors of a number. (and its recursive, COOL!)`
Hi Bob,
Inspired, I wrote a more compact version of your function which will work on
long64 too
cheers
Martin
ps: probably is already in the jpl/cm/df library anyway!
function ifactors, num, factor start = factor start
;+
; Returns the prime factors of an integer
: inspired by Bob Stockwell
: MRD 7/2/2002
maxfac = sqrt(abs(num))
if n_elements(factor_start) eq 0 then begin
 if maxfac qt 1073741824 then factor start = long64(2) else factor start =
2L
endif
; find the lowest factor and return that plus the result of factoring the
remainder
;stop
for f = factor_start, maxfac do begin
 if num mod f eq 0 then begin
 return, [f, ifactors(num/f, factor_start = f)]
 endif
endfor
; or return if prime
```

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