Subject: Re: mean() function
Posted by Maarten[1] on Mon, 16 Jan 2006 08:01:05 GMT
View Forum Message <> Reply to Message

I think that this comes close. I ignores infinite numbers on request.
Is it fast: no. But implementing the thing is C should be near trivial
if you have dealt with that before (I haven't, at least not in IDL).

```
function alt_mean, D, nan=nan
 compile_opt defint32, strictarr, logical_predicate, strictarrsubs

 M = 0.0

 if keyword_set(nan) then begin
  idx = where(finite(D), cnt)
  if cnt gt 0 then begin
   for  ii=0,n_elements(idx) do $
    M += (D[idx[ii]] - M)/(ii+1)
  endif else begin
   M = !values.d_nan
  endelse
 endif else begin
  for  ii=0,n_elements(D) do $
   M += (D[ii] - M)/(ii+1)
 endelse

 return, M
end
```