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Subject: Re: mean() function

Posted by [Maarten\[1\]](#) on Mon, 16 Jan 2006 08:01:05 GMT

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I think that this comes close. I ignores infinite numbers on request.  
Is it fast: no. But implementing the thing in 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
```

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