

---

Subject: Re: percentile with dimension keyword  
Posted by [Kim](#) on Tue, 19 Jul 2011 14:34:05 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

On Jul 19, 9:42 am, Ben Tupper <ben.bigh...@gmail.com> wrote:  
>  
> Now that I think of it, have you searched for a function called  
> percentile.pro? It might be worth looking for that as a starting point.  
>  
> Cheers,  
> Ben

; PERCENTILE: This Function returns the Values of data Corresponding  
to input Percentiles

; NOTE: The Values returned are linear interpolates of the  
sorted data

; EXAMPLE: DATA=FindGen(1001) & Print,  
PERCENTILE(DATA,PERCENT=[0,0.01,1,10,50,98,99.9,100.0])

FUNCTION PERCENTILE,DATA,PERCENT=PERCENT,MISSING=MISSING,ERROR=error

IF N\_ELEMENTS(PERCENT) EQ 0 THEN PERCENT = FindGen(101)  
INDEX = INTERPOL([0.0,100.0],N\_ELEMENTS(DATA)) ; Normalize INDEX  
FROM 0 to 100 percent  
VALUES = INTERPOL(DATA(Sort(DATA)),INDEX , PERCENT)  
IF N\_ELEMENTS(VALUEs) EQ 1 THEN RETURN, VALUEs(0) ELSE RETURN,  
VALUEs

END

---