Subject: Re: IDL trig functions
Posted by thompson on Thu, 01 Sep 1994 22:56:29 GMT
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dean@phobos.cira.colostate.edu writes:

> Are there IDL equilivents to the following FORTRAN trig double precision
> intrinsic functions?

> DSIN()
> DCOS()
> DTAN()
> DATAN()
> ATAN2()
> DATAN2()

IDL functions are generic. You can use any of the trigonometric functions with either single or double precision arguments, and the precision of the result is the same as the precision of the argument. (If you give them integer arguments, you get a floating point result, which makes sense.) You can even give them complex arguments and get a complex result.

The ATAN function in IDL can take either 1 or 2 arguments, so it fulfills the role of both ATAN and ATAN2 in FORTRAN (as well as DATAN and DATAN2).

Bill Thompson