
Subject: Is there a fast Complex ATAN in IDL 5.5?
Posted by [MKatz843](#) on Thu, 15 Aug 2002 23:57:38 GMT
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I've avoided switching to IDL 5.5 for some time now because I use ATAN() to produce the phase of complex data. In my simple tests with IDL 5.4,

ATAN(x) runs over 30% faster than
ATAN(imaginary(x),float(x)).

I use ATAN() a great deal, and in real-time feedback applications with 512x512 arrays where time is important.

Does anyone know

(A) Is there a new, fast ATAN() available that can process my complex data a la IDL 5.4?

(B) Is there a way to hack the IDL libraries to put the old ATAN function into the newer IDL library to recover the old behavior?

Thanks,

M. Katz
