Subject: binomial function change Posted by air_jlin on Tue, 24 Sep 2002 04:15:42 GMT

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hi all,

maybe this was documented in the "what's new" back when idl 5.4 shipped, but since i couldn't find the change mentioned in places i have access to (archives of this group, rsi tech tips, etc.), when i was trying to debug a program i was writing in idl 5.3 that used binomial(), i thought i'd mention it here to save anyone else from wondering "what's going on?".

in idl 5.5, the following call returns the following result:

IDL> print,binomial(4,30,0.05) % Compiled module: BINOMIAL.

0.0607712

% Program caused arithmetic error: Floating underflow

this result is correct.

in idl 5.3, this is what you get:IDL> print,binomial(4,30,0.05)% Compiled module: BINOMIAL.% Compiled module: GAUSS_PDF.0.0181180

the difference appears to be that for values of n>25, the 5.3 routine defaults to calculating the cumulative binomial distribution using a gaussian approximation.

best, -Johnny

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