
Subject: Re: digital phantom

Posted by [Achim Hein](#) on Fri, 21 Feb 1997 08:00:00 GMT

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Phil Williams wrote:

>

> I'm in the process of generating a digital phantom to test some code
> that I have written and was wondering if anyone has written a gaussian
> noise generator before I go and do it myself.

If I understand you right, you are looking for noise generators.

IDL offers you two kinds: one to get uniformly distributed noise, the
other one to get gaussian (in IDL it is called normally distributed)
noise.

uniformly : `uni=2.*PI*randomu(seed,N)-!Pi`

gaussian : `gaus=(2.*PI*randomn(seed,N)/12.`

(to get identical variance you have to multiply these factors)

triangle distribution: `tri=(uni1+uni2)/2.`

gaussian with small variance: `gaus_small=(gaus1+gaus2+...+gausN)/N`

Cheers

Achim

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