Subject: Re: modulo reset
Posted by MKatz843 on Tue, 23 Nov 2004 17:45:42 GMT
View Forum Message <> Reply to Message

Ralf Schaa wrote in message news:<cnv951kfc1@newsreader2.netcologne.de>...
> Hi there,
>
> I'm reading out some binary data and the description says this about a data field :
>
> in the case of a modulo reset add 2^32

This seems like an "unwrapping" problem.
If your data is (relatively) slowly varying, you could interpret any
discrete jump of more than 2^31 as having come from a "modulo reset"
to use their terminology, which I'm guessing I understand.

For example, if the data were modulo 16 (2^4) then a series that looks
like this

1, 3, 5, 7, 9, 11, 13, 15, 1, 3, 5 might actually be
1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21

Here, where a jump of larger than 8 was detected, add (or subtract as
the case may be) 16 to restore "continuity."

M.