Subject: Re: Find subarray in an array?
Posted by Jackel on Thu, 23 Feb 1995 07:23:54 GMT
View Forum Message <> Reply to Message

In article <3i018j$69q@gwdu19.gwdg.de> kettmann@linrap.dnet.gwdg.de () writes:

> I am looking for an efficient/elegant solution to find "sync words" within an
> array.
> The sync word consists of 3 consecutive bytes, for example:
>   SYNC = ['14'XB, '6f'XB, '2e'XB]
> and I need to find the position of the first element of SYNC within an array
> (it is not granted that there is any SYNC, it there could be more than one
> SYNC).

If your data is a byte stream, then you might try converting it to a string,
and using the STRPOS command. For example

sync= [1B, 2B, 3B]
syncstring= STRING(sync)   ;convert to a 3 character string

data= [0B, 1B, 1B, 2B, 3B, 0B]   ;create a dummy data stream containing "sync"
datastring= STRING(data)   ;convert it to a string

syncpos= STRPOS(datastring,syncstring,0)

will find the first (if any) occurance of "sync" within "data". However, I
haven't tested to see if it is any faster than 3 successive WHERE's.

                        Brian Jackel
                        University of Western Ontario