
Subject: Re: Efficient pattern-matching in a large array
Posted by [John Correia](#) on Tue, 02 Aug 2011 18:29:16 GMT
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On 08/02/2011 02:05 PM, Chris O'Dell wrote:

> I have a byte array of tens of millions values (read from a binary
> file). I want to find an 8-byte pattern where ever it occurs. Similar
> to where, but 8 values at a time instead of one. The problem is
> finding a way to do this that is as fast as possible. The pattern is:
> [234, 203, 138, 216, 21, 52, 117, 39].
>
> Right now, I have this in a big loop and it takes a while. We tried
> "match2" but it ran out of memory.
>
> Thanks,
> Chris
>

Would the following do the trick?

```
index = where( array eq 234B $  
  AND shift(array,-1) eq 203B $  
  AND shift(array,-2) eq 138B $  
  AND shift(array,-3) eq 216B $  
  etc etc
```

Regards,

John
