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Subject: How to speed up code which checks lots of values of an array

Posted by [Robin Wilson](#) on Thu, 13 Jan 2011 16:06:34 GMT

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Hi all,

I've been writing some code which checks that all of the values in one half of an array are less than a threshold, and all of the values on the right half of an array are greater than a threshold. I've written the code below, which seems to be a fairly clean way of writing it, and works for any length of array (which is important for my use of it).

However, it's not very fast. I wondered if it might be able to be sped up using some sort of magic like the Histogram command... Any ideas?

---CODE---

; Assume we're given a 1D array called line with our values in it

len = N\_ELEMENTS(line)

section\_len = (len - 1) / 2

; Get the left-hand half of the array

LHS = line[0:section\_len - 1]

RHS = line[section\_len + 1: len - 1]

res = WHERE(LHS GT 180, LHS\_count)

res = WHERE(RHS LT 180, RHS\_count)

IF LHS\_count EQ 0 AND RHS\_count EQ 0 THEN BEGIN

  ; Do stuff

ENDIF

---END CODE---

Cheers,

Robin

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