
Subject: Re: Speeding up I/O

Posted by [marc schellens\[1\]](#) on Wed, 17 Mar 2004 03:09:10 GMT

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Ken Knapp wrote:

- > Are there any tricks to speed up I/O?
- > Situation: I have 1.2 TB of data to process. The following is a typical
- > read statement:
- > in = {header:bytarr(128),scan:intarr(1250)}
- > image = replicate(in,1250)
- > openr,1,file
- > readu,1,image
- > close,1
- > Then I process the image and output something. The slow part is in the
- > readu [I used profiler to find that readu IS slowing me down, the
- > computations are only a fraction of the read time].
- > Any suggestions on how to speed it up?
- > Tricks to make the computer find files faster?
- > Would Fortran/C be faster?
- >
- > Any help is greatly appreciated.
- > -Ken

The fastest you can get would be to read in one array instead of an array of structures:

```
image = intarr( 128/2 + 1250, 1250)
openr,1,file
readu,1,image
close,1
```

Then you have to separate the header yourself and convert it back to byte.

Anyway, this method is almost as fast as it gets (almost like C). About 80% faster than the one using structures on my machine.

HDH,
marc
