
Subject: Re: Optimising A = B+C?

Posted by [davis](#) on Tue, 04 Jun 1996 07:00:00 GMT

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On 3 Jun 1996 22:05:03 GMT, John E. Davis <davis@space.mit.edu>
wrote:

: Here is the file t.c:

[...]

: int main (int argc, char **argv)

: {

: unsigned int dim = MAX_SIZE * MAX_SIZE;

: unsigned int i;

: float a[MAX_SIZE+EXTRA][MAX_SIZE+EXTRA],

b[MAX_SIZE+EXTRA][MAX_SIZE+EXTRA];

On some systems it is necessary to make `a' and `b' global variables because
as declared, they use up about $2^4 \cdot 1024 \cdot 1024 = 8$ Mbytes of stack space.

This will cause the program to core dump if not enough stack space is
available. The change will look like:

```
float a[MAX_SIZE+EXTRA][MAX_SIZE+EXTRA], b[MAX_SIZE+EXTRA][MAX_SIZE+EXTRA];
```

```
int main (int argc, char **argv)
```

```
{
```

```
    unsigned int dim = MAX_SIZE * MAX_SIZE;
```

```
    unsigned int i;
```

```
--
```

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