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Subject: Re: Dynamically resizing arrays

Posted by [Michael Wallace](#) on Wed, 09 Feb 2005 20:02:29 GMT

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- > Adding a row at a time requires time and memory to grow as the square
- > of the size.
- > Memory grows because the new chunk cannot reuse the old one, it is too
- > big.
- > Adding a chunk at a time reduces the coefficient by 100 or whatever.
- > Doubling increases time logarithmically.
- > This square growth can noticeably slow a program that does a lot of it.

Doubling reduces overall time at the expense of memory. The chunk approach tracks memory much closer at the expense of time. While a lot of square growth can noticeably slow a program, it will still be much faster than the chunk approach.

-Mike

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