BERT 77:
Automatic and Efficient Parallelizer for FORTRAN

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Adding more processors to speed up a FORTRAN application is a cost effective way to improve performance. The problem is:

WHETHER IT WILL ACTUALLY IMPROVE PERFORMANCE?

The answer to this question can be very costly in terms of time and money and is perhaps the main reason why more applications have not benefited from parallel computation.

By using BERT 77, you can automatically and efficiently parallelize FORTRAN applications sitting at your workstation using a "point and click" interface. In a matter of hours you can answer questions like:

- Is my application concurrent*?
- How much performance increase can I get from running my application on a cluster of workstations? a shared memory machine?
- If I make my application concurrent*, how much faster will it really go?
- What is the effect of adding more processors?

* one of the biggest MISTAKES people make when using parallel computers is to make everything that is concurrent (that which can be done at the same time) parallel (that which should be done at the same time)

BERT 77 will eliminate weeks or months of trial and error guessing. You will learn how well the concurrency in your program maps on to a parallel computing environment of choice and be able to make "pay-off" decisions quickly (i.e. "How much faster will my application go if I parallelize this loop?")

Obtaining BERT 77

We are in the process creating new versions and pricing model. We believe these

changes will allow easier evaluations of BERT 77. Please Contact
Basement Supercomputing with any questions.

The basic BERT 77 Lite
version is still available FREE from Basement Supercomputing. This version will
analyze up to 8000 lines of FORTRAN 77 source code.
Please see the download page for information on how to obtain BERT 77 Lite.

Information on our new pricing model and prices can be found on this document.

Please see the following for more information:

- BERT
  Executive Summary

- BERT Questions and Answers

- A good description (with screen shots) of how to use BERT 77 can be found in these two ClusterWorld articles (Part One and Part Two. These files are best viewd with a newer version of Linux ggv or acroread)