

SuperCon '98

Sponsored by Computer Center, Tokyo Institute of Technology

SUPER COMPUTER CONTEST '98 FOR HIGH SCHOOL STUDENTS

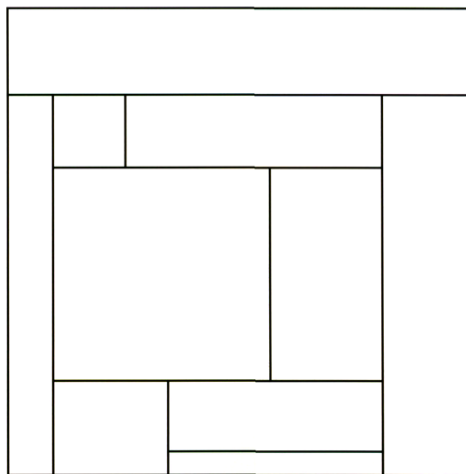
Entry Exercise:

Write a program which solves the following equation to 400 digits of precision:

$$X^3 - 6X^2 + 8 = 0$$

Contest Exercise: "Packing Problem"

One square board and several plates are given. Write a program which packs plates into the square as follows:



The Contest was performed with the following hardware/software conditions: Cray C916/12256 (Clock 4 ns, 12 CPUs, 2GB Memories)

CPUs: 9, Memory: 128 MB, Running mode: dedicated to one job at a time

Compiler options: nothing. (1) the inner most loop can be vectorized. (2) No autotasking, but directives can be allowed to be added into source codes.

Winner's Results:

The elapsed time to solve the whole problems for the four types of plate combination is **1.12second.**



Team Mitoia (Mito Dai-ichi High School)
(IZUMI Yusuke)

We are waiting for your challenge next year 1999.

For more information or comments, send an e-mail to: office@cc.titech.ac.jp.



TOKYO INSTITUTE OF TECHNOLOGY