The TART Times

The newsletter for TART users

January 1997

Editors: Dermott 'Red' Cullen, Susan M. Mangels

For subscription contact S. Mangels 2-1521 or smangels@llnl.gov

TART95 Documentation on the Web

Thanks to Dave Knapp, the complete TART95 documentation (TART95: A Coupled Neutron-Photon Monte Carlo Transport Code, UCRL-MA-121319, July 4, 1995) is now available on the Web at,

http://www-phys.llnl.gov/N_Div/TART

All of the TART95 keywords are cross indexed, so that you can quickly find all references to them, e.g., definitions and examples of their use.

Note: Although TART96 has now completely superseded TART95, the TART95 documentation is still generally applicable to TART96.

Improvement Analysis of Criticality Problems

Did you ever wonder what's going on inside criticality problems? If you have, TART96 can now show you. New graphics output allows you to see the neutron spectrum, as well as where fission neutrons are produced, and where they are absorbed or leak from a system. With this simple graphic output you can obtain a greatly improved understanding of what's actually happening in any system, e.g., what's important and what isn't.

Improved Interactive Graphics Input Checker (TARTCHEK)

One of the most difficult problems in preparing input for any combinatorial Monte Carlo code is making sure that your geometry is correctly described. TARTCHEK is designed to help you extensively check your geometry before running TART problems. New TARTCHEK options allow you to "see" inside your geometry and obtain 3-D hardcopy views of your geometry. If you don't have a copy of TARTCHEK, you don't know what you're missing.

TART96 is now available for Windows'95 and NT

If you are using an IBM-PC you can now get more work done by starting TART96 in a window and then switching to another window to work on something else, while TART96 continues to run.

New Version of EPICSHOW now available

If you want to "see" what neutron and/or photon data TART is using, you should have a copy of EPICSHOW. This code is designed as an interactive replacement for our UCRL-50400 series of publications. It contains data for neutrons, photons, electrons, and light charged particles. You can look at data on your screen, as well as obtaining tables or Postscript black/white plots, or Postscript color plots.

What Extensions Do You Need?

If in planning the extensions for TART96 there is something that we have overlooked and you need for your applications, please contact Red Cullen, so that we can discuss your needs.

This message was in the preceding newsletter (July '96), and since that time we have received a number of excellent suggestions that have already been incorporated in TART96, and users are already using these new features in their applications. So don't be shy. If you have a suggestion please let us hear it.

TART95 Documentation is Still Available

There are still a few copies of the TART95 documentation available. If you are a TART95 user, for a copy of the TART95 documentation contact Red Cullen, as soon as possible, before the few remaining copies are gone.

Interesting Applications

If you have an interesting TART application that you would like to include in this newsletter and share with our readers, please contact the editor of this newsletter, Susan Mangels, at(510) 422-1521 or smangels @llnl.gov.

Do You Need Help?

If you need help using TART contact Red Cullen at 3-7359. If you are having problems with a TART input deck send it to cullen1@llnl.gov.