

**DIVERSIFIED CHEMICAL PRODUCTS**  
**Specialty Products Division**  
**Cambridge, MA 02139**

**MEMO #0**

TO: U.R. Engineer

FROM: A.I. Jockey (Technical Services Group)

DATE: Sep 6, 2007

SUBJECT: Instructions to get JACOBIAN in personal your Windows computer

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This memo explains how to get JACOBIAN in your personal Windows computer (Laptop or Desktop). JACOBIAN is a Dynamic Simulation and Optimization Software developed by Numerica Technology LLC (spin-off from MIT). You will use it to perform dynamic simulation of chemical processes. Dynamic simulation is the use of mathematical models to predict the time dependent or dynamic behavior of a chemical process (as opposed to steady-state simulation which is only concerned with predicting the steady-state of a process).

Numerica Technology will give you a copy of JACOBIAN and a license file after following the next set of instructions. Follow this procedure as soon as possible, because the process to get JACOBIAN takes a couple of days. Numerica Technology allows us to use JACOBIAN free of charge, so be very respectful with them. If you have any problem with JACOBIAN or its installation, contact the TAs and do not contact Numerica Technology.

JACOBIAN will be available also in the PC cluster located in the DeGregory room (RM 66-064) in the chemical engineering building. JACOBIAN is only available for Windows at this time.

### **Getting JACOBIAN in your own Laptop or Desktop**

To get JACOBIAN in your computer you need to follow these steps:

- Go to [http://www.numericatech.com/register\\_academic.htm](http://www.numericatech.com/register_academic.htm)
- Fill your personal information and include the following:
  - Advisor = Paul Barton,
  - Research Area = 10.490,
  - Company = MIT,
  - Software = Jacobian,
- select JACOBIAN as the “Software product to install”, select the computer type and upload the network-related information (follow instructions provided in the web site),
- you will receive an email from Numerica Technology with a license file (*jac.lic*) and information how to download the software,
- download the software and run the installer. Accept the default options. This will install JACOBIAN in the folder *C:\Program Files\Jacobian*,

- at the end copy *jac.lic* and paste it in the folder *C:\Program Files\Jacobian\System*.
- Now JACOBIAN is installed in your computer.