

# MissionLab System Installation

## **System Requirements**

### **Computing Hardware:**

- Processor Speed—any standard Intel processor should work. Minimal processor is Intel Celeron M 370 with clock speed 1.5 GHz.
- RAM Memory—it is always better to have as much memory as possible. Minimal requirement is at least 512 MB.
- Hard drive space—a 10GB hard drive is the minimal requirement. We recommend the standard 40GHz hard drive. We recommend a minimum of 400 MB free disk space.
- Graphics Card—NVIDIA graphics card is recommended. Minimally the graphics card must be supported by the operating system kernel including all relevant drivers.
- Three Button Mouse

### **Supporting Software:**

- Operating system—overall we recommend that MissionLab version 7.0 be used with the Fedora Core 4 operating system. This version of MissionLab has been successfully compiled and tested on the following operating systems:
  - Red Hat Linux 7.1, 7.3, and 9.0
  - Fedora Core 3, 4, and 5
  - Red Hat Enterprise Linux WS

Please read the comments below for operating specific recommendations:

Note 1: The default installation of a RedHat Linux system may not include all of the packages necessary to compile MissionLab. When installing Linux, we recommend that you select all of the packages labeled under *Development Tools*, *X Windows System*, *X Software Development*, and *Legacy Software Support*.

Note 2: If you have installed Fedora Core 5 directly from the installation disks, MissionLab may not compile due to a problem with the kernel (2.6.15). In this case, we recommend that you update your kernel to at least 2.6.17 and other software packages by running *yum*. If you are new to Linux and not familiar with how to update the kernel, we recommend that you use Fedora Core 4 instead.

Note 3: The most common impediment to MissionLab installation is a lack of compatibility with the GNU compiler (gcc/g++). Older versions of gcc are better. The latest GNU compiler that MissionLab is known to compile with is gcc 4.1 which is included in Fedora Core 5.

Note 4: We recommend that you use the Open Motif version of Motif, especially if you intend to use Fedora Core 5. We have noticed that the LessTif version of Motif (which is an API for the X Windows GUI) tends to produce various warnings during the operation of MissionLab, and even fails to display some of the widgets if executed from Fedora Core 5.

## **Installation and Compilation**

### **Steps:**

- 1) Make a directory for MissionLab in the desired location (called *mlabhome* in this document)
- 2) Uncompress the MissionLab tar-ball in this new directory
- 3) Change current directory to: *mlabhome/src*
- 4) Execute: './configure'
- 5) Execute 'make all'
- 6) Add '*mlabhome/bin*' and '.' to your default path