

Instructions for compiling cuSVM for Fedora Linux 64 bit

- I. Download Matlab plug-in for Cuda (Version 1.1) from http://developer.nvidia.com/object/matlab_cuda.html
- II. Move the nvmex and nvopts.sh files contained in the folder downloaded from (I) to /home/user_name/bin.
- III. Download cuSVM from <http://patternsonascreen.net/cuSVM.html>.
- IV. Download the make file from <http://www.ece.nmsu.edu/~pdeleon> and place it in the cuSVM directory.*
- V. Add “using namespace std;” at the top of the cuSVM Solver.cu (Line 21) i.e. directly after the include statements.
- VI. Move the following lines (Lines 22, 23, 25 and 26) of code from cuSVM Predict.cpp:

```
if(nrhs!=6)
    mexErrMsgTxt("cuSVM Predict requires 6 and only 6 inputs.");

if(nlhs>1)
    mexErrMsgTxt("cuSVM Predict produces only one output.");
```

before the lines (Lines 12 and 13):

```
int m=mxGetM(prhs[0]);
int k=mxGetN(prhs[0]);
```

- VII. Type “make” in terminal while in the cuSVM directory.

* The makefile assumes CUDA is installed to the default folder (i.e. /usr/local/cuda) and Matlab is installed to default folder (i.e. /usr/local/matlab). Also, the makefile assumes that the NVIDIA_CUDA_SDK folder is located in the user’s home directory.

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