=== Run information ===

Scheme: weka.classifiers.functions.LibSVM -S 0 -K 2 -D 3 -G 0.0 -R 0.0 -N 0.5 -M 40.0 -C 1.0 -E 0.001 -P 0.1 -model "C:\\Program Files\\Weka-3-8-5" -seed 1

Relation: KDDTrain20P\_05A.arff-weka.filters.unsupervised.attribute.Remove-R42-weka.filters.unsupervised.attribute.RemoveUseless-M99.0-weka.filters.unsupervised.attribute.SortLabels-R2-SNON-CASE-weka.filters.unsupervised.attribute.OrdinalToNumeric-R2-4-weka.filters.unsupervised.attribute.MathExpression-E(A-MEAN)/SD-weka.filters.unsupervised.attribute.Remove-V-R5,3,28,4,6,27,33,21,31,32,36,23,37,last

Instances: 25192

Attributes: 14

src\_bytes

service

diff\_srv\_rate

flag

dst\_bytes

same\_srv\_rate

dst\_host\_diff\_srv\_rate

count

dst\_host\_srv\_count

dst\_host\_same\_srv\_rate

dst\_host\_serror\_rate

serror\_rate

dst\_host\_srv\_serror\_rate

class

Test mode: 10-fold cross-validation

=== Classifier model (full training set) ===

LibSVM wrapper, original code by Yasser EL-Manzalawy (= WLSVM)

Time taken to build model: 8.6 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 23788 94.4268 %

Incorrectly Classified Instances 1404 5.5732 %

Kappa statistic 0.9021

Mean absolute error 0.0223

Root mean squared error 0.1493

Relative absolute error 9.7372 %

Root relative squared error 44.1317 %

Total Number of Instances 25192

=== Detailed Accuracy By Class ===

TP Rate FP Rate Precision Recall F-Measure MCC ROC Area PRC Area Class

0.970 0.069 0.941 0.970 0.955 0.903 0.950 0.929 normal

0.954 0.000 0.999 0.954 0.976 0.963 0.977 0.970 dos

0.129 0.000 1.000 0.129 0.229 0.358 0.565 0.136 r2l

0.835 0.026 0.765 0.835 0.799 0.779 0.905 0.654 probe

0.000 0.000 ? 0.000 ? ? 0.500 0.000 u2r

Weighted Avg. 0.944 0.039 ? 0.944 ? ? 0.952 0.912

=== Confusion Matrix ===

a b c d e <-- classified as

13043 6 0 400 0 | a = normal

348 8806 0 80 0 | b = dos

82 0 27 100 0 | c = r2l

377 0 0 1912 0 | d = probe

5 0 0 6 0 | e = u2r