=== 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 "D:\\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-Elog(1+A)-Rlast-weka.filters.unsupervised.attribute.Remove-V-R5,3,28,4,6,27,33,21,31,last

Instances: 25192

Attributes: 10

src\_bytes

service

diff\_srv\_rate

flag

dst\_bytes

same\_srv\_rate

dst\_host\_diff\_srv\_rate

count

dst\_host\_srv\_count

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: 2.46 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 24854 98.6583 %

Incorrectly Classified Instances 338 1.3417 %

Kappa statistic 0.9764

Mean absolute error 0.0054

Root mean squared error 0.0733

Relative absolute error 2.3441 %

Root relative squared error 21.6533 %

Total Number of Instances 25192

=== Detailed Accuracy By Class ===

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

0.997 0.023 0.980 0.997 0.988 0.975 0.987 0.979 normal

0.996 0.002 0.997 0.996 0.996 0.994 0.997 0.994 dos

0.211 0.000 0.978 0.211 0.346 0.452 0.605 0.212 r2l

0.964 0.002 0.983 0.964 0.973 0.970 0.981 0.950 probe

0.000 0.000 ? 0.000 ? ? 0.500 0.000 u2r

Weighted Avg. 0.987 0.013 ? 0.987 ? ? 0.987 0.975

=== Confusion Matrix ===

a b c d e <-- classified as

13406 12 1 30 0 | a = normal

28 9198 0 8 0 | b = dos

163 2 44 0 0 | c = r2l

68 15 0 2206 0 | d = probe

10 0 0 1 0 | e = u2r