=== 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,last

Instances: 25192

Attributes: 9

src\_bytes

service

diff\_srv\_rate

flag

dst\_bytes

same\_srv\_rate

dst\_host\_diff\_srv\_rate

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: 2.08 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 24801 98.4479 %

Incorrectly Classified Instances 391 1.5521 %

Kappa statistic 0.9726

Mean absolute error 0.0062

Root mean squared error 0.0788

Relative absolute error 2.7117 %

Root relative squared error 23.2892 %

Total Number of Instances 25192

=== Detailed Accuracy By Class ===

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

0.995 0.026 0.978 0.995 0.986 0.971 0.985 0.976 normal

0.996 0.003 0.995 0.996 0.995 0.993 0.996 0.992 dos

0.120 0.000 0.806 0.120 0.208 0.309 0.560 0.104 r2l

0.959 0.001 0.985 0.959 0.972 0.969 0.979 0.948 probe

0.000 0.000 ? 0.000 ? ? 0.500 0.000 u2r

Weighted Avg. 0.984 0.015 ? 0.984 ? ? 0.985 0.972

=== Confusion Matrix ===

a b c d e <-- classified as

13386 27 6 30 0 | a = normal

37 9195 0 2 0 | b = dos

182 2 25 0 0 | c = r2l

76 18 0 2195 0 | d = probe

10 0 0 1 0 | e = u2r