=== 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-R5,3,28,4,6,27,33,21,31,32,36,last

Instances: 25192

Attributes: 12

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

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: 2.2 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 24889 98.7972 %

Incorrectly Classified Instances 303 1.2028 %

Kappa statistic 0.9789

Mean absolute error 0.0048

Root mean squared error 0.0694

Relative absolute error 2.1014 %

Root relative squared error 20.5016 %

Total Number of Instances 25192

=== Detailed Accuracy By Class ===

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

0.992 0.016 0.986 0.992 0.989 0.977 0.988 0.983 normal

0.998 0.001 0.998 0.998 0.998 0.997 0.999 0.997 dos

0.593 0.000 0.919 0.593 0.721 0.737 0.796 0.548 r2l

0.961 0.004 0.961 0.961 0.961 0.957 0.978 0.927 probe

0.000 0.000 ? 0.000 ? ? 0.500 0.000 u2r

Weighted Avg. 0.988 0.009 ? 0.988 ? ? 0.989 0.979

=== Confusion Matrix ===

a b c d e <-- classified as

13347 3 11 88 0 | a = normal

15 9219 0 0 0 | b = dos

83 2 124 0 0 | c = r2l

76 14 0 2199 0 | d = probe

10 0 0 1 0 | e = u2r