=== 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-R5,3,28,4,6,27,33,21,31,32,36,23,37,24,last

Instances: 25192

Attributes: 15

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

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: 3.33 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 24870 98.7218 %

Incorrectly Classified Instances 322 1.2782 %

Kappa statistic 0.9776

Mean absolute error 0.0051

Root mean squared error 0.0715

Relative absolute error 2.2332 %

Root relative squared error 21.1346 %

Total Number of Instances 25192

=== Detailed Accuracy By Class ===

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

0.993 0.017 0.985 0.993 0.989 0.976 0.988 0.982 normal

0.998 0.001 0.998 0.998 0.998 0.997 0.998 0.996 dos

0.574 0.000 0.923 0.574 0.708 0.726 0.787 0.534 r2l

0.954 0.004 0.961 0.954 0.958 0.953 0.975 0.921 probe

0.000 0.000 ? 0.000 ? ? 0.500 0.000 u2r

Weighted Avg. 0.987 0.010 ? 0.987 ? ? 0.989 0.977

=== Confusion Matrix ===

a b c d e <-- classified as

13349 3 10 87 0 | a = normal

17 9217 0 0 0 | b = dos

87 2 120 0 0 | c = r2l

88 17 0 2184 0 | d = probe

10 0 0 1 0 | e = u2r