=== 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,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: 2.13 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 24874 98.7377 %

Incorrectly Classified Instances 318 1.2623 %

Kappa statistic 0.9779

Mean absolute error 0.005

Root mean squared error 0.0711

Relative absolute error 2.2054 %

Root relative squared error 21.0029 %

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 0.997 dos

0.579 0.000 0.924 0.579 0.712 0.730 0.789 0.538 r2l

0.955 0.004 0.961 0.955 0.958 0.954 0.976 0.922 probe

0.000 0.000 ? 0.000 ? ? 0.500 0.000 u2r

Weighted Avg. 0.987 0.010 ? 0.987 ? ? 0.989 0.978

=== Confusion Matrix ===

a b c d e <-- classified as

13349 3 10 87 0 | a = normal

16 9218 0 0 0 | b = dos

86 2 121 0 0 | c = r2l

87 16 0 2186 0 | d = probe

10 0 0 1 0 | e = u2r