=== 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 "C:\\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-E(A-MEAN)/SD-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: 8.78 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 23413 92.9382 %

Incorrectly Classified Instances 1779 7.0618 %

Kappa statistic 0.8711

Mean absolute error 0.0282

Root mean squared error 0.1681

Relative absolute error 12.3379 %

Root relative squared error 49.6769 %

Total Number of Instances 25192

=== Detailed Accuracy By Class ===

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

0.996 0.146 0.887 0.996 0.938 0.866 0.925 0.885 normal

0.947 0.001 0.998 0.947 0.971 0.956 0.973 0.964 dos

0.081 0.000 0.895 0.081 0.149 0.268 0.541 0.080 r2l

0.550 0.002 0.966 0.550 0.701 0.712 0.774 0.573 probe

0.000 0.000 ? 0.000 ? ? 0.500 0.000 u2r

Weighted Avg. 0.929 0.078 ? 0.929 ? ? 0.925 0.879

=== Confusion Matrix ===

a b c d e <-- classified as

13395 14 2 38 0 | a = normal

487 8741 0 6 0 | b = dos

192 0 17 0 0 | c = r2l

1022 7 0 1260 0 | d = probe

11 0 0 0 0 | e = u2r