=== 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,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: 11.49 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 23374 92.7834 %

Incorrectly Classified Instances 1818 7.2166 %

Kappa statistic 0.8682

Mean absolute error 0.0289

Root mean squared error 0.1699

Relative absolute error 12.6084 %

Root relative squared error 50.2185 %

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 0.149 0.885 0.996 0.937 0.864 0.924 0.883 normal

0.943 0.002 0.997 0.943 0.969 0.953 0.971 0.961 dos

0.086 0.000 0.900 0.086 0.157 0.277 0.543 0.085 r2l

0.547 0.002 0.965 0.547 0.699 0.709 0.773 0.570 probe

0.000 0.000 ? 0.000 ? ? 0.500 0.000 u2r

Weighted Avg. 0.928 0.080 ? 0.928 ? ? 0.924 0.876

=== Confusion Matrix ===

a b c d e <-- classified as

13398 13 2 36 0 | a = normal

520 8705 0 9 0 | b = dos

191 0 18 0 0 | c = r2l

1023 13 0 1253 0 | d = probe

11 0 0 0 0 | e = u2r