=== 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,last

Instances: 25192

Attributes: 7

src\_bytes

service

diff\_srv\_rate

flag

dst\_bytes

same\_srv\_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: 9.1 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 23035 91.4378 %

Incorrectly Classified Instances 2157 8.5622 %

Kappa statistic 0.8439

Mean absolute error 0.0342

Root mean squared error 0.1851

Relative absolute error 14.9594 %

Root relative squared error 54.7006 %

Total Number of Instances 25192

=== Detailed Accuracy By Class ===

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

0.977 0.145 0.886 0.977 0.929 0.844 0.916 0.877 normal

0.948 0.023 0.960 0.948 0.954 0.928 0.962 0.929 dos

0.086 0.000 0.900 0.086 0.157 0.277 0.543 0.085 r2l

0.492 0.004 0.923 0.492 0.642 0.653 0.744 0.500 probe

0.000 0.000 ? 0.000 ? ? 0.500 0.000 u2r

Weighted Avg. 0.914 0.086 ? 0.914 ? ? 0.914 0.855

=== Confusion Matrix ===

a b c d e <-- classified as

13141 264 2 42 0 | a = normal

433 8750 0 51 0 | b = dos

127 63 18 1 0 | c = r2l

1129 34 0 1126 0 | d = probe

10 1 0 0 0 | e = u2r