=== 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,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: 2.47 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 24741 98.2097 %

Incorrectly Classified Instances 451 1.7903 %

Kappa statistic 0.9685

Mean absolute error 0.0072

Root mean squared error 0.0846

Relative absolute error 3.1278 %

Root relative squared error 25.0124 %

Total Number of Instances 25192

=== Detailed Accuracy By Class ===

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

0.994 0.024 0.979 0.994 0.986 0.971 0.985 0.976 normal

0.995 0.006 0.990 0.995 0.992 0.988 0.995 0.987 dos

0.134 0.000 0.848 0.134 0.231 0.335 0.567 0.121 r2l

0.945 0.003 0.969 0.945 0.957 0.953 0.971 0.921 probe

0.000 0.000 ? 0.000 ? ? 0.500 0.000 u2r

Weighted Avg. 0.982 0.015 ? 0.982 ? ? 0.983 0.968

=== Confusion Matrix ===

a b c d e <-- classified as

13363 35 5 46 0 | a = normal

28 9186 0 20 0 | b = dos

177 2 28 2 0 | c = r2l

70 55 0 2164 0 | d = probe

10 0 0 1 0 | e = u2r