=== 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,last

Instances: 25192

Attributes: 13

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

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: 2.21 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 24878 98.7536 %

Incorrectly Classified Instances 314 1.2464 %

Kappa statistic 0.9781

Mean absolute error 0.005

Root mean squared error 0.0706

Relative absolute error 2.1777 %

Root relative squared error 20.8704 %

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 0.986 0.993 0.989 0.977 0.988 0.982 normal

0.998 0.001 0.998 0.998 0.998 0.997 0.999 0.997 dos

0.589 0.000 0.925 0.589 0.719 0.736 0.794 0.548 r2l

0.955 0.004 0.962 0.955 0.958 0.954 0.975 0.923 probe

0.000 0.000 ? 0.000 ? ? 0.500 0.000 u2r

Weighted Avg. 0.988 0.010 ? 0.988 ? ? 0.989 0.978

=== Confusion Matrix ===

a b c d e <-- classified as

13350 4 10 85 0 | a = normal

14 9220 0 0 0 | b = dos

84 2 123 0 0 | c = r2l

87 17 0 2185 0 | d = probe

10 0 0 1 0 | e = u2r