=== 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,last

Instances: 25192

Attributes: 8

src\_bytes

service

diff\_srv\_rate

flag

dst\_bytes

same\_srv\_rate

dst\_host\_diff\_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: 10.1 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 23227 92.1999 %

Incorrectly Classified Instances 1965 7.8001 %

Kappa statistic 0.8582

Mean absolute error 0.0312

Root mean squared error 0.1766

Relative absolute error 13.6279 %

Root relative squared error 52.2093 %

Total Number of Instances 25192

=== Detailed Accuracy By Class ===

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

0.981 0.136 0.892 0.981 0.934 0.855 0.922 0.885 normal

0.949 0.019 0.966 0.949 0.958 0.934 0.965 0.936 dos

0.086 0.000 0.900 0.086 0.157 0.277 0.543 0.085 r2l

0.550 0.003 0.956 0.550 0.698 0.707 0.774 0.567 probe

0.000 0.000 ? 0.000 ? ? 0.500 0.000 u2r

Weighted Avg. 0.922 0.080 ? 0.922 ? ? 0.921 0.868

=== Confusion Matrix ===

a b c d e <-- classified as

13187 224 2 36 0 | a = normal

449 8763 0 22 0 | b = dos

130 61 18 0 0 | c = r2l

1012 18 0 1259 0 | d = probe

10 1 0 0 0 | e = u2r