=== 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,last

Instances: 25192

Attributes: 6

src\_bytes

service

diff\_srv\_rate

flag

dst\_bytes

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: 8.61 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 23047 91.4854 %

Incorrectly Classified Instances 2145 8.5146 %

Kappa statistic 0.8451

Mean absolute error 0.0341

Root mean squared error 0.1845

Relative absolute error 14.8762 %

Root relative squared error 54.5482 %

Total Number of Instances 25192

=== Detailed Accuracy By Class ===

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

0.972 0.139 0.889 0.972 0.929 0.843 0.917 0.879 normal

0.957 0.024 0.958 0.957 0.957 0.933 0.966 0.932 dos

0.086 0.000 0.900 0.086 0.157 0.277 0.543 0.085 r2l

0.491 0.005 0.901 0.491 0.636 0.644 0.743 0.489 probe

0.000 0.000 ? 0.000 ? ? 0.500 0.000 u2r

Weighted Avg. 0.915 0.084 ? 0.915 ? ? 0.916 0.856

=== Confusion Matrix ===

a b c d e <-- classified as

13069 291 2 87 0 | a = normal

363 8835 0 36 0 | b = dos

132 58 18 1 0 | c = r2l

1124 40 0 1125 0 | d = probe

10 1 0 0 0 | e = u2r