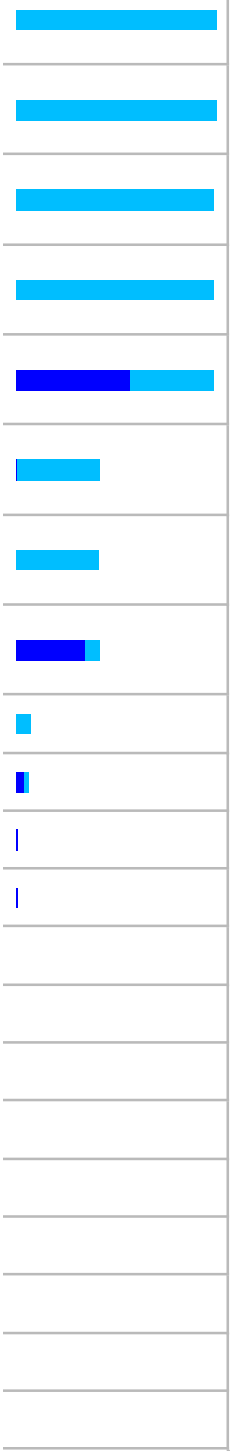
Profile Summary

Generated 24-Feb-2015 11:27:14 using cpu time.

Function Name	Calls	**Total Time**	Self Time*
ANNkfoldver3b	1	352.651 s	0.067 s
network.train	10	350.949 s	0.006 s
trainlm	210	350.467 s	0.009 s
network.train>trainPerWorker	10	350.459 s	0.000 s
trainlm>train_network	10	350.458 s	200.646 s
nnCalcLib>nnCalcLib.perfsJEJJ	108	149.142 s	3.251 s
perfsJEJJ	108	145.891 s	0.013 s
perfsJEJJ>calc_Y_trainPerfJeJJ	108	145.767 s	122.341 s
perfsJEJJ>calc_jacobian	108	23.192 s	0.009 s
jac_s	108	23.183 s	14.642 s
jac_s>reprow	216	3.469 s	3.469 s
jac_s>reprowint	216	3.355 s	3.355 s
dperf	108	1.405 s	1.372 s
network.subsasgn>network_subsasgn	460	1.229 s	0.049 s
network.subsasgn	460	1.204 s	0.008 s
newff>new_5p1	10	1.136 s	0.023 s
newff>create_network	10	1.136 s	0.000 s
newff	10	1.136 s	0.000 s
nnModuleInfo	461	0.812 s	0.399 s
setup1	31	0.410 s	0.002 s
setup1>setupImpl	31	0.408 s	0.008 s

Total Time Plot (dark band = self time)


nnCalcLib>nnCalcLib.trainPerf	158	0.404 s	0.021 s
trainPerf	158	0.383 s	0.008 s
perfs	158	0.375 s	0.054 s
y	158	0.290 s	0.009 s
network.sim	21	0.284 s	0.008 s
parameter_defaults	561	0.278 s	0.065 s
...ParamInfo>nnetParamInfo.nnetParamInfo	524	0.273 s	0.157 s
setup	10	0.261 s	0.000 s
network.subsasgn>getDefaultParam	150	0.247 s	0.006 s
@network\private\nn_configure_layer	60	0.227 s	0.011 s
netHints	10	0.224 s	0.044 s
jac_s>stretch	108	0.191 s	0.188 s
y>calca	158	0.190 s	0.082 s
transfer_fcn	140	0.188 s	0.017 s
network.sim>nncalc_setup	21	0.184 s	0.002 s
y_all	108	0.180 s	0.063 s
tansig	120	0.170 s	0.000 s
@network\private\nn_configure_input	20	0.170 s	0.019 s
network.subsasgn>setTrainParam	120	0.170 s	0.003 s
param>do_test	120	0.163 s	0.088 s
param	120	0.163 s	0.000 s
performance_fcn	41	0.160 s	0.005 s
mse	41	0.160 s	0.000 s
parameterInfo	120	0.142 s	0.005 s
info	51	0.140 s	0.001 s
perfsJEJJ>calc_perf_N	324	0.140 s	0.035 s
mapminmax	60	0.138 s	-0.000 s
network.subsasgn>setLayerTransferFcn	20	0.137 s	0.001 s
@ne...\private\nn_configure_layer_weight	70	0.136 s	0.005 s

process_fcn	50	0.134 s	0.000 s
network.subsasgn>setInputProcessFcns	10	0.134 s	0.000 s
network.subsasgn>setInputExampleInput	10	0.125 s	0.001 s
info	70	0.121 s	0.013 s
removeconstantrows	60	0.113 s	0.001 s
@network\private\nn_update_read_only	460	0.110 s	0.110 s
network.subsasgn>setLayerInitFcn	20	0.106 s	0.001 s
getParamStructFromArgs	100	0.104 s	0.004 s
nnCalcLib>nnCalcLib.setwb	158	0.099 s	0.052 s
parameterInfo	102	0.096 s	0.006 s
@ne...\private\nn_configure_input_weight	60	0.095 s	0.004 s
@network\private\nn_configure_output	30	0.093 s	0.005 s
feedback	118	0.091 s	0.028 s
string	2116	0.089 s	0.066 s
apply	532	0.085 s	0.085 s
gmultiply	1130	0.084 s	0.009 s
initlay	160	0.084 s	0.002 s
dotprod	60	0.084 s	0.001 s
weight_fcn	60	0.083 s	0.004 s
netHints	21	0.080 s	0.042 s
initnw	60	0.076 s	0.002 s
gmultiply>calc_cell	1130	0.075 s	0.036 s
network.init	10	0.072 s	0.017 s
network.subsasgn>setOutputExampleOutput	10	0.072 s	0.000 s
reverse	374	0.069 s	0.069 s
network.subsasgn>setOutputProcessFcns	10	0.068 s	0.003 s
network.network	490	0.063 s	0.010 s
apply	532	0.059 s	0.059 s
options2Mode	31	0.059 s	0.003 s

num2str	509	0.057 s	0.032 s
data	407	0.057 s	0.015 s
y>post_outputs	158	0.056 s	0.003 s
initlay>initialize_network	10	0.054 s	0.001 s
network.network>new_network	10	0.053 s	0.001 s
initnw>initialize_layer	20	0.053 s	0.001 s
y>reverse_process	158	0.053 s	0.026 s
tapdelay	216	0.052 s	0.052 s
netHints	31	0.051 s	0.040 s
info	150	0.051 s	0.047 s
nntraintool	108	0.050 s	0.046 s
options2Mode>MexOrMATLAB	31	0.049 s	0.016 s
parameterInfo	80	0.048 s	0.002 s
gsubtract	600	0.048 s	0.007 s
setwb	158	0.047 s	0.018 s
feedback>train_status_str	198	0.046 s	0.002 s
dn_dzj	432	0.045 s	0.045 s
info	160	0.044 s	0.023 s
fixunknowns	30	0.044 s	-0.000 s
gsubtract>calc_cell	590	0.041 s	0.019 s
pos_scalar	440	0.039 s	0.037 s
gmultiply>calc_general	1130	0.039 s	0.039 s
y_all>calc_pd	108	0.038 s	0.004 s
network.subsasgn>setNumLayers	20	0.037 s	0.001 s
setwb	168	0.037 s	0.003 s
data>type_check	407	0.037 s	0.001 s
network.subsasgn>newLayer	10	0.036 s	0.000 s
network.subsasgn>setLayerSize	10	0.035 s	0.000 s
pd	158	0.035 s	0.035 s

setup	10	0.035 s	0.001 s
minmax	140	0.035 s	0.001 s
network.subsasgn>setLayerDimensions	10	0.035 s	0.000 s
setup>setupPerWorker	10	0.034 s	0.001 s
pos_int_scalar	456	0.033 s	0.014 s
defaultMode	62	0.033 s	0.016 s
setup2	31	0.033 s	0.003 s
wb_indices	145	0.032 s	0.032 s
create	20	0.031 s	0.009 s
network.subsasgn>setInputConnect	20	0.031 s	0.001 s
separatewb	168	0.028 s	0.028 s
network.subsasgn>setPerformFcn	10	0.026 s	0.002 s
first_match	732	0.025 s	0.025 s
net_input_fcn	10	0.025 s	0.016 s
netsum	10	0.025 s	0.000 s
match	850	0.025 s	0.025 s
mean	1400	0.024 s	0.024 s
string>type_check	2116	0.023 s	0.023 s
matrix_data	211	0.023 s	0.022 s
gsubtract>calc_general	590	0.022 s	0.022 s
network.sim>simData	21	0.022 s	0.001 s
grp2idx	13	0.021 s	0.002 s
network.sim>simDataCellOfMatrix	21	0.021 s	0.007 s
apply	503	0.020 s	0.020 s
delayed_inputs	108	0.020 s	0.002 s
initlay>configure_layer_weight	70	0.020 s	-0.000 s
nndata	108	0.019 s	0.005 s
unique	13	0.018 s	0.002 s
purelin	20	0.018 s	0.000 s

network.subsasgn>setBiasLearnFcn	20	0.018 s	0.017 s
netCheck	42	0.017 s	0.006 s
meshgrid	40	0.017 s	0.017 s
fix_nan_inputs	10	0.017 s	0.017 s
crossvalind	1	0.016 s	0.000 s
unique>uniquelegacy	13	0.016 s	0.016 s
pos_int_scalar>strict_format	120	0.016 s	0.016 s
write	108	0.016 s	0.004 s
initnw>configure_layer_weight	20	0.016 s	0.000 s
starts	51	0.016 s	0.016 s
layer_sizes	94	0.016 s	0.016 s
network.sim>simPerWorker	21	0.016 s	0.001 s
activeInputRange	140	0.015 s	0.015 s
name	140	0.015 s	0.015 s
create	40	0.015 s	0.013 s
apply	532	0.015 s	0.015 s
nnCalcLib>nnCalcLib.y	21	0.015 s	0.001 s
cell_data	206	0.014 s	0.007 s
update	108	0.014 s	0.014 s
y	21	0.014 s	0.004 s
num2str>handleNumericPrecision	214	0.013 s	0.000 s
num2str>convertUsingRecycledSprintf	214	0.013 s	0.013 s
nnetParamInfo>fcn2filename	524	0.013 s	0.009 s
network.subsasgn>nsubsasn	590	0.013 s	0.013 s
int2str	278	0.012 s	0.012 s
network.subsasgn>matchstring	620	0.012 s	0.012 s
jac_s>repcolint	108	0.012 s	0.012 s
confusionmatStats	12	0.012 s	0.003 s
minargs	3070	0.011 s	0.011 s

transfer_fcn	160	0.011 s	0.011 s
weight_fcn	150	0.011 s	0.011 s
network.subsasgn>setLayerConnect	20	0.011 s	0.000 s
create	40	0.010 s	0.008 s
minmax	140	0.010 s	0.010 s
preCalcData	31	0.010 s	0.001 s
confusionmat	12	0.009 s	0.004 s
da_dn	216	0.009 s	0.009 s
flags	118	0.009 s	0.003 s
layer_order	83	0.009 s	0.009 s
pc	31	0.009 s	0.006 s
bool_scalar	240	0.008 s	0.006 s
network.subsasgn>nextsubs	780	0.008 s	0.008 s
normalize_error	698	0.008 s	0.008 s
initnw>calcnw	20	0.008 s	0.003 s
yy (MEX-file)	21	0.008 s	0.008 s
num_scalar	240	0.007 s	0.006 s
strict_pos_int_scalar	151	0.007 s	0.007 s
bz	108	0.007 s	0.007 s
pos_inf_scalar	120	0.006 s	0.005 s
over1	120	0.006 s	0.005 s
network.subsasgn>setNumInputs	20	0.006 s	0.003 s
gsqrt	432	0.006 s	0.006 s
dataHints	21	0.006 s	0.002 s
check	31	0.006 s	0.002 s
y>active_fcns	158	0.006 s	0.006 s
initlay>configure_input_weight	60	0.006 s	0.000 s
cell_data>type_check	206	0.006 s	0.006 s
nnMATLAB	31	0.006 s	0.005 s

nnMex	21	0.006 s	0.005 s
nnCalcLib>nnCalcLib.nnCalcLib	31	0.006 s	0.006 s
performance_fcn	51	0.005 s	0.005 s
real_0_to_1	222	0.005 s	0.004 s
error_norm_mode	102	0.005 s	0.003 s
learngdm	80	0.005 s	0.005 s
formatData	21	0.005 s	0.003 s
config	10	0.005 s	0.002 s
jac_s>outputs2layersE	108	0.005 s	0.005 s
formatNet	21	0.005 s	-0.000 s
validation	98	0.005 s	0.005 s
network.subsasgn>setPlotFcns	10	0.005 s	0.002 s
initwb	110	0.005 s	0.003 s
data>strict_format	283	0.005 s	0.005 s
normr	20	0.005 s	0.001 s
initnw>configure_input_weight	20	0.005 s	0.000 s
randnr>new_value_from_rows_cols	20	0.005 s	0.000 s
randnr	20	0.005 s	0.000 s
convert1D	12	0.005 s	0.005 s
filesep	524	0.004 s	0.004 s
processing_fcn	70	0.004 s	0.004 s
cell2mat	394	0.004 s	0.004 s
output_sizes	222	0.004 s	0.004 s
jac_s>remove_dont_care_errors	108	0.004 s	0.004 s
nnsize	21	0.004 s	0.001 s
nnsize	253	0.004 s	0.004 s
getwb	41	0.004 s	0.001 s
nnCalcLib>nnCalcLib.getwb	20	0.004 s	0.002 s
network.subsasgn>setBiasConnect	20	0.004 s	0.001 s

network.subsasgn>setOutputConnect	20	0.004 s	0.002 s
network.subsasgn>newWeight	20	0.004 s	0.004 s
network.network>setnet	60	0.004 s	0.000 s
mat2cell	61	0.004 s	0.004 s
codeHints	21	0.004 s	0.004 s
pos_int_vector	108	0.003 s	0.003 s
net_input_fcn	30	0.003 s	0.003 s
repmat	20	0.003 s	0.002 s
dataHints	10	0.003 s	0.002 s
active_fcns	108	0.003 s	0.003 s
dx_dy	108	0.003 s	0.003 s
formwb	41	0.003 s	0.003 s
status	60	0.003 s	0.003 s
usejava	334	0.003 s	0.003 s
fileparts	108	0.003 s	0.003 s
dividerand	20	0.003 s	0.002 s
checkOptions	31	0.003 s	0.002 s
setup>share_samples	30	0.003 s	0.001 s
weedProcessSteps	31	0.003 s	0.003 s
pc>fast_mat2cell	31	0.003 s	0.003 s
type	51	0.002 s	0.002 s
normalize	144	0.002 s	0.002 s
strict_pos_int_inf_scalar	120	0.002 s	0.002 s
strict_pos_scalar	120	0.002 s	0.002 s
error_norm_mode>type_check	102	0.002 s	0.001 s
info	30	0.002 s	0.002 s
parameterInfo	280	0.002 s	0.002 s
inputDerivType	150	0.002 s	0.002 s
apply	40	0.002 s	0.002 s

getwb	20	0.002 s	0.000 s
etime	108	0.002 s	0.002 s
network.subsasgn>setTrainFcn	10	0.002 s	0.001 s
initwb>configure_layer_weight	50	0.002 s	0.002 s
initlay>initialize_bias	20	0.002 s	0.000 s
@network\private\nn_configure_bias	20	0.002 s	0.000 s
size	130	0.002 s	0.002 s
argPairs2Struct	62	0.002 s	0.002 s
nndata_pos	10	0.002 s	0.000 s
intmax	26	0.001 s	0.001 s
name	102	0.001 s	0.001 s
parameterInfo	300	0.001 s	0.001 s
name	30	0.001 s	0.001 s
outputRange	140	0.001 s	0.001 s
type	40	0.001 s	0.001 s
type	140	0.001 s	0.001 s
repmat>create@(x)double(full(x))	20	0.001 s	0.001 s
adaptwb	10	0.001 s	0.001 s
pos_int_scalar>type_check	456	0.001 s	0.001 s
dz_dw	216	0.001 s	0.001 s
deal	130	0.001 s	0.001 s
...thworks.toolbox.nnet.guis.nnTrainTool (Java method)	216	0.001 s	0.001 s
dividerand>divide_indices	10	0.001 s	0.001 s
network.subsasgn>setAdaptFcn	10	0.001 s	0.000 s
network.subsasgn>setInputWeightLearnFcn	10	0.001 s	0.001 s
network.subsasgn>setLayerWeightLearnFcn	10	0.001 s	0.000 s
network.subsasgn>newBias	20	0.001 s	0.001 s
nndata_pos>type_check	10	0.001 s	0.000 s
nndata_pos>strict_format	10	0.001 s	0.000 s

extract_param	60	0.001 s	0.001 s
network.subsasgn>subs1	130	0.001 s	0.001 s
network.subsasgn>subs2	30	0.001 s	0.001 s
over1>type_check	120	0.001 s	0.001 s
override	31	0.001 s	0.001 s
nn7	10	0.001 s	0.001 s
netFcns	42	0.001 s	0.001 s
setup1>checkPdImplemented	31	0.001 s	0.000 s
netHints>simlayorder	10	0.001 s	0.001 s
forward_layer_delays	21	0.001 s	0.000 s
forward_layer_delays>delays_to_layer	42	0.001 s	0.001 s
formatData	10	0.001 s	0.001 s
finalize	10	0.001 s	0.001 s
convertNum	1	0 s	0.000 s
cell.strmatch	1	0 s	0.000 s
strmatch	1	0 s	0.000 s
intmin	13	0 s	0.000 s
string>strict_format	20	0 s	0.000 s
network.subsasgn>setLayerName	20	0 s	0.000 s
real_0_to_1>type_check	222	0 s	0.000 s
trainlm>formatNet	10	0 s	0.000 s
pos_scalar>type_check	440	0 s	0.000 s
num_scalar>type_check	240	0 s	0.000 s
parameterInfo	60	0 s	0.000 s
parameterInfo	40	0 s	0.000 s
parameterInfo	40	0 s	0.000 s
type	30	0 s	0.000 s
name	20	0 s	0.000 s
type	20	0 s	0.000 s

outputRange	20	0 s	0.000 s
activeInputRange	20	0 s	0.000 s
isScalar	20	0 s	0.000 s
isScalar	140	0 s	0.000 s
name	150	0 s	0.000 s
type	150	0 s	0.000 s
weightDerivType	150	0 s	0.000 s
name	10	0 s	0.000 s
type	10	0 s	0.000 s
processInputs	10	0 s	0.000 s
processOutputs	10	0 s	0.000 s
processInputs	20	0 s	0.000 s
processOutputs	20	0 s	0.000 s
processInputs	40	0 s	0.000 s
processOutputs	40	0 s	0.000 s
name	20	0 s	0.000 s
type	20	0 s	0.000 s
name	40	0 s	0.000 s
nnetParam>nnetParam.nnetParam	10	0 s	0.000 s
@network\private\isposint	50	0 s	0.000 s
@network\private\nn_new_input_struct	10	0 s	0.000 s
repmat>@(x)double(full(x))	40	0 s	0.000 s
apply	20	0 s	0.000 s
apply	40	0 s	0.000 s
nnetParam>nnetParam.struct	100	0 s	0.000 s
nnfcnTraining>nnfcnTraining.gdefaults	10	0 s	0.000 s
pos_int_vector>type_check	108	0 s	0.000 s
dz_dp	108	0 s	0.000 s
validation_start	10	0 s	0.000 s

start	10	0 s	0.000 s
plotperform	10	0 s	0.000 s
plottrainstate	10	0 s	0.000 s
plotregression	10	0 s	0.000 s
network.subsasgn>setDivideFcn	10	0 s	0.000 s
@network\private\isbool	40	0 s	0.000 s
initwb>initialize_bias	20	0 s	0.000 s
initwb>configure_input_weight	40	0 s	0.000 s
matrix_data>type_check	211	0 s	0.000 s
rands	20	0 s	0.000 s
rands>new_value_from_rows_cols	20	0 s	0.000 s
linspace	20	0 s	0.000 s
network.subsasgn>newOutput	10	0 s	0.000 s
network.subsasgn>setInitFcn	10	0 s	0.000 s
bool_scalar>type_check	240	0 s	0.000 s
strict_pos_int_inf_scalar>type_check	120	0 s	0.000 s
pos_inf_scalar>type_check	120	0 s	0.000 s
strict_pos_int_scalar>type_check	151	0 s	0.000 s
strict_pos_scalar>type_check	120	0 s	0.000 s
net	10	0 s	0.000 s
extractNameValuePairs	31	0 s	0.000 s
defaults	31	0 s	0.000 s
expandFile	31	0 s	0.000 s
netCheck	20	0 s	0.000 s
nnetTrainingRecord	10	0 s	0.000 s
pruneEmptyWeights	31	0 s	0.000 s
input_sizes	52	0 s	0.000 s
fliplr	61	0 s	0.000 s
flip	20	0 s	0.000 s

defaultderiv	10	0 s	0.000 s
formatNet	10	0 s	0.000 s
codeHints	10	0 s	0.000 s
summary	10	0 s	0.000 s
summary	21	0 s	0.000 s
network.sim>getXf	10	0 s	0.000 s
parseArgs	12	0 s	0.000 s
parseArgs	12	0 s	0.000 s
trace	12	0 s	0.000 s

Self time is the time spent in a function excluding the time spent in its child fun
Self time also includes overhead resulting from the process of profiling.

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