Profile Summary
Generated 24-Feb-2015 11:12:02 using cpu time.

<u>Function Name</u>	Calls	Total Time	Self Time*
ANNkfoldver3b	1	66.495 s	0.016 s
network.train_	10	63.950 s	0.016 s
<u>trainlm</u>	210	63.236 s	0.000 s
trainlm>train_network_	10	63.236 s	23.444 s
network.train>trainPerWorker	10	63.236 s	0.000 s
nnCalcLib>nnCalcLib.perfsJEJJ	159	38.525 s	0.560 s
perfsJEJJ	159	37.965 s	0.000 s
perfsJEJJ>calc Y trainPerfJeJJ	159	37.777 s	24.728 s
<u>jac s</u>	159	12.676 s	7.434 s
perfsJEJJ>calc_jacobian	159	12.676 s	0.000 s
newff>new_5p1	10	1.954 s	0.016 s
newff>create_network	10	1.954 s	0.000 s
newff	10	1.954 s	0.000 s
network.subsasgn>network_subsasgn_	640	1.934 s	0.031 s
network.subsasgn_	640	1.919 s	0.000 s
dperf	159	1.861 s	1.815 s
nnModuleInfo	971	1.515 s	0.891 s
jac s>reprowint	795	1.496 s	1.496 s
jac s>reprow	795	1.468 s	1.468 s
nnCalcLib>nnCalcLib.trainPerf	278	0.844 s	0.079 s

Total Time Plot (dark band = self time) ı

<u>perfs</u>	278	0.765 s	0.047 s
trainPerf	278	0.765 s	0.000 s
Υ	278	0.702 s	0.046 s
setup1>setupImpl	31	0.607 s	0.016 s
setup1	31	0.607 s	0.000 s
@network\private\nn configure layer	150	0.597 s	0.016 s
<u>y>calca</u>	278	0.481 s	0.263 s
@ne\private\nn_configure_layer_weight	280	0.425 s	0.016 s
transfer_fcn	350	0.406 s	0.000 s
setup	10	0.406 s	0.000 s
network.subsasgn>setLayerTransferFcn_	50	0.404 s	0.032 s
network.sim.	21	0.387 s	0.000 s
tansig	300	0.373 s	0.015 s
<u>netHints</u>	10	0.326 s	0.031 s
network.subsasgn>getDefaultParam_	240	0.311 s	0.000 s
<u>y all</u>	159	0.311 s	0.077 s
jac s>stretch	159	0.277 s	0.277 s
apply	2185	0.266 s	0.266 s
perfsJEJJ>calc perf N	477	0.250 s	0.079 s
network.sim>nncalc_setup	21	0.247 s	0.000 s
performance_fcn	41	0.231 s	0.000 s
mse	41	0.231 s	0.000 s
ParamInfo>nnetParamInfo.nnetParamInfo	524	0.218 s	0.077 s
parameter_defaults	1071	0.215 s	0.061 s
initlay	400	0.202 s	-0.000 s
info	51	0.201 s	0.015 s
feedback	169	0.187 s	0.094 s
info	390	0.174 s	0.127 s
@network\private\nn configure output	30	0.174 s	0.000 s

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network.subsasgn>setLayerInitFcn	50	0.174 s	0.000 s
parameterInfo	102	0.171 s	0.016 s
@network\private\nn update read only	640	0.170 s	0.170 s
network.init	10	0.156 s	0.000 s
initnw>initialize_layer_	50	0.156 s	0.000 s
initnw	120	0.156 s	0.000 s
initlay>initialize network	10	0.156 s	0.000 s
@network\private\nn_configure_input	20	0.155 s	0.000 s
nnCalcLib>nnCalcLib.setwb	278	0.143 s	0.032 s
network.subsasgn>setInputProcessFcns	10	0.143 s	0.000 s
<u>netHints</u>	31	0.142 s	0.110 s
process_fcn	50	0.142 s	0.000 s
param>do test	120	0.140 s	0.108 s
gmultiply	1709	0.140 s	0.031 s
network.subsasgn>setTrainParam	120	0.140 s	0.000 s
param	120	0.140 s	0.000 s
reverse	596	0.125 s	0.125 s
network.subsasgn>setInputExampleInput	10	0.123 s	0.000 s
<u>removeconstantrows</u>	60	0.111 s	-0.000 s
setwb	278	0.111 s	0.016 s
<u>y>post_outputs</u>	278	0.111 s	0.015 s
<u>mapminmax</u>	60	0.110 s	-0.000 s
network.subsasgn>setLayerSize	40	0.109 s	0.000 s
gmultiply>calc_cell_	1709	0.109 s	0.030 s
network.subsasgn>setLayerDimensions	40	0.109 s	0.015 s
fixunknowns	30	0.107 s	0.000 s
create	20	0.107 s	0.016 s
y>reverse_process	278	0.096 s	0.016 s

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network.subsasgn>setOutputExampleOutput	10	0.096 s	0.000 s
setwb	288	0.095 s	0.000 s
<u>separatewb</u>	288	0.095 s	0.095 s
network.subsasgn>setOutputProcessFcns	10	0.094 s	-0.000 s
mean	1400	0.091 s	0.091 s
info	70	0.079 s	0.016 s
gmultiply>calc general	1709	0.079 s	0.079 s
data	467	0.078 s	0.046 s
network.network	670	0.078 s	0.015 s
@ne\private\nn_configure_input_weight	60	0.078 s	-0.000 s
info	400	0.077 s	0.062 s
network.subsasgn>setPerformFcn_	10	0.076 s	0.000 s
<u>pd</u>	278	0.064 s	0.064 s
<u>parameterInfo</u>	120	0.063 s	0.016 s
weight_fcn	60	0.063 s	0.000 s
network.network>new_network	10	0.063 s	0.000 s
setup>setupPerWorker	10	0.063 s	0.000 s
setup	10	0.063 s	0.000 s
dotprod	60	0.063 s	0.000 s
options2Mode	31	0.063 s	0.032 s
netHints_	21	0.062 s	0.047 s
network.subsasgn>matchstring	980	0.062 s	0.062 s
tapdelay	318	0.062 s	0.062 s
apply	2185	0.061 s	0.061 s
num2str_	669	0.048 s	0.000 s
purelin	50	0.048 s	0.000 s
apply	2185	0.048 s	0.048 s
string.	2146	0.047 s	0.015 s

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<u>confusionmat</u> 12 0.031 s 0.015 s	network.sim>simData	21	0.032 s	0.000 s
	crossvalind	1	0.031 s	0.015 s
network.subsasgn>nsubsasn 770 0.031 s 0.031 s	confusionmat	12	0.031 s	0.015 s
	network.subsasgn>nsubsasn	770	0.031 s	0.031 s

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280 0.031 s 0.000 s 0.000 s 0.001 s 0.000 s	network.subsasgn>setInputConnect	20	0.031 s	0.000 s
10,000 s	<u>initwb</u>	320	0.031 s	0.015 s
options2Mode>MexOrMATLAB 31 0.031 s 0.000 s nnCalcLib>nnCalcLib.y 21 0.031 s 0.016 s network.sim>simPerWorker 21 0.031 s 0.000 s convert1D 12 0.031 s 0.031 s nntraintool 159 0.030 s 0.030 s write 159 0.030 s 0.000 s preCalcData 31 0.030 s 0.000 s num2str>handleNumericPrecision 273 0.016 s 0.000 s num2str>convertUsingRecycledSprintf 273 0.016 s 0.016 s filesep 524 0.016 s 0.016 s matrix_data 271 0.016 s 0.016 s parameterInfo 80 0.016 s 0.016 s parameterInfo 780 0.016 s 0.016 s weight_fcn 390 0.016 s 0.016 s inputDerivType 390 0.016 s 0.016 s name 350 0.016 s 0.016 s	initlay>configure_layer_weight_	280	0.031 s	0.000 s
nnCalcLib>nnCalcLib.y 21 0.031 s 0.016 s network.sim>simPerWorker 21 0.031 s 0.000 s convert1D 12 0.031 s 0.031 s nntraintool 159 0.030 s 0.030 s write 159 0.030 s 0.000 s pc 31 0.030 s 0.015 s preCalcData 31 0.030 s 0.000 s num2str>handleNumericPrecision 273 0.016 s 0.000 s num2str>convertUsingRecycledSprintf 273 0.016 s 0.016 s filesep 524 0.016 s 0.016 s matrix_data 271 0.016 s 0.016 s parameterInfo 80 0.016 s 0.016 s parameterInfo 780 0.016 s 0.016 s weight_fcn 390 0.016 s 0.016 s inputDerivType 390 0.016 s 0.016 s name 350 0.016 s 0.016 s	initnw>calcnw_	50	0.031 s	0.000 s
network.sim>simPerWorker 21 0.031 s 0.000 s convert1D 12 0.031 s 0.031 s nntraintool 159 0.030 s 0.030 s write 159 0.030 s 0.000 s pc 31 0.030 s 0.015 s preCalcData 31 0.030 s 0.000 s num2str>handleNumericPrecision 273 0.016 s 0.000 s num2str>convertUsingRecycledSprintf 273 0.016 s 0.016 s filesep 524 0.016 s 0.016 s matrix_data 271 0.016 s 0.016 s parameterInfo 80 0.016 s 0.016 s parameterInfo 780 0.016 s 0.016 s weight_fcn 390 0.016 s 0.016 s inputDerivType 390 0.016 s 0.016 s create 40 0.016 s 0.016 s	options2Mode>MexOrMATLAB	31	0.031 s	0.000 s
12 0.031 s 0.031 s 0.031 s 0.031 s 0.031 s 0.030 s	nnCalcLib>nnCalcLib.y_	21	0.031 s	0.016 s
nntraintool 159 0.030 s 0.030 s write 159 0.030 s 0.000 s pc 31 0.030 s 0.015 s preCalcData 31 0.030 s 0.000 s num2str>handleNumericPrecision 273 0.016 s 0.000 s num2str>convertUsingRecycledSprintf 273 0.016 s 0.016 s filesep 524 0.016 s 0.016 s matrix_data 271 0.016 s 0.016 s parameterInfo 80 0.016 s 0.016 s parameterInfo 780 0.016 s 0.016 s weight_fcn 390 0.016 s 0.016 s inputDerivType 390 0.016 s 0.016 s name 350 0.016 s 0.016 s	network.sim>simPerWorker_	21	0.031 s	0.000 s
write 159 0.030 s 0.000 s pc 31 0.030 s 0.015 s preCalcData 31 0.030 s 0.000 s num2str>handleNumericPrecision 273 0.016 s 0.000 s num2str>convertUsingRecycledSprintf 273 0.016 s 0.016 s filesep 524 0.016 s 0.016 s matrix_data 271 0.016 s 0.016 s parameterInfo 80 0.016 s 0.000 s parameterInfo 780 0.016 s 0.016 s weight_fcn 390 0.016 s 0.016 s inputDerivType 390 0.016 s 0.016 s name 350 0.016 s 0.016 s create 40 0.016 s 0.016 s	convert1D	12	0.031 s	0.031 s
pc 31 0.030 s 0.015 s preCalcData 31 0.030 s 0.000 s num2str>handleNumericPrecision 273 0.016 s 0.000 s num2str>convertUsingRecycledSprintf 273 0.016 s 0.016 s filesep 524 0.016 s 0.016 s matrix_data 271 0.016 s 0.016 s pos_scalar 440 0.016 s 0.016 s parameterInfo 80 0.016 s 0.000 s parameterInfo 780 0.016 s 0.016 s weight_fcn 390 0.016 s 0.016 s inputDerivType 390 0.016 s 0.016 s name 350 0.016 s 0.016 s create 40 0.016 s 0.016 s	nntraintool_	159	0.030 s	0.030 s
preCalcData 31 0.030 s 0.000 s num2str>handleNumericPrecision 273 0.016 s 0.000 s num2str>convertUsingRecycledSprintf 273 0.016 s 0.016 s filesep 524 0.016 s 0.016 s matrix_data 271 0.016 s 0.016 s pos_scalar 440 0.016 s 0.016 s parameterInfo 80 0.016 s 0.000 s parameterInfo 780 0.016 s 0.016 s weight_fcn 390 0.016 s 0.016 s inputDerivType 390 0.016 s 0.016 s name 350 0.016 s 0.016 s create 40 0.016 s 0.016 s	write	159	0.030 s	0.000 s
num2str>handleNumericPrecision 273 0.016 s 0.000 s num2str>convertUsingRecycledSprintf 273 0.016 s 0.016 s filesep 524 0.016 s 0.016 s matrix_data 271 0.016 s 0.016 s pos_scalar 440 0.016 s 0.016 s parameterInfo 80 0.016 s 0.016 s parameterInfo 780 0.016 s 0.016 s weight_fcn 390 0.016 s 0.016 s inputDerivType 390 0.016 s 0.016 s name 350 0.016 s 0.016 s create 40 0.016 s 0.016 s	<u>pc</u>	31	0.030 s	0.015 s
num2str>convertUsingRecycledSprintf 273 0.016 s 0.016 s filesep 524 0.016 s 0.016 s matrix_data 271 0.016 s 0.016 s pos_scalar 440 0.016 s 0.016 s parameterInfo 80 0.016 s 0.000 s parameterInfo 780 0.016 s 0.016 s weight_fcn 390 0.016 s 0.016 s inputDerivType 390 0.016 s 0.016 s name 350 0.016 s 0.016 s create 40 0.016 s 0.016 s	preCalcData	31	0.030 s	0.000 s
filesep 524 0.016 s 0.016 s matrix_data 271 0.016 s 0.016 s pos_scalar 440 0.016 s 0.016 s parameterInfo 80 0.016 s 0.000 s parameterInfo 780 0.016 s 0.016 s weight_fcn 390 0.016 s 0.016 s nputDerivType 390 0.016 s 0.016 s name 350 0.016 s 0.016 s create 40 0.016 s 0.016 s	num2str>handleNumericPrecision	273	0.016 s	0.000 s
matrix data 271 0.016 s 0.016 s pos scalar 440 0.016 s 0.016 s parameterInfo 80 0.016 s 0.000 s parameterInfo 780 0.016 s 0.016 s weight_fcn 390 0.016 s 0.016 s inputDerivType 390 0.016 s 0.016 s name 350 0.016 s 0.016 s create 40 0.016 s 0.016 s	num2str>convertUsingRecycledSprintf	273	0.016 s	0.016 s
pos scalar 440 0.016 s 0.016 s parameterInfo 80 0.016 s 0.000 s parameterInfo 780 0.016 s 0.016 s weight_fcn 390 0.016 s 0.016 s inputDerivType 390 0.016 s 0.016 s name 350 0.016 s 0.016 s create 40 0.016 s 0.016 s	<u>filesep</u>	524	0.016 s	0.016 s
parameterInfo 80 0.016 s 0.000 s parameterInfo 780 0.016 s 0.016 s weight_fcn 390 0.016 s 0.016 s inputDerivType 390 0.016 s 0.016 s name 350 0.016 s 0.016 s create 40 0.016 s 0.016 s	matrix_data_	271	0.016 s	0.016 s
parameterInfo 780 0.016 s 0.016 s weight_fcn 390 0.016 s 0.016 s inputDerivType 390 0.016 s 0.016 s name 350 0.016 s 0.016 s create 40 0.016 s 0.016 s	pos scalar	440	0.016 s	0.016 s
weight_fcn 390 0.016 s 0.016 s inputDerivType 390 0.016 s 0.016 s name 350 0.016 s 0.016 s create 40 0.016 s 0.016 s	<u>parameterInfo</u>	80	0.016 s	0.000 s
inputDerivType 390 0.016 s 0.016 s name 350 0.016 s 0.016 s create 40 0.016 s 0.016 s	parameterInfo	780	0.016 s	0.016 s
name 350 0.016 s 0.016 s create 40 0.016 s 0.016 s	weight_fcn	390	0.016 s	0.016 s
<u>create</u> 40 0.016 s 0.016 s	inputDerivType	390	0.016 s	0.016 s
	name_	350	0.016 s	0.016 s
<u>create</u> 40 0.016 s 0.000 s	<u>create</u>	40	0.016 s	0.016 s
	<u>create</u>	40	0.016 s	0.000 s

apply	40	0.016 s	0.016 s
learngdm	200	0.016 s	0.016 s
<u>bz</u>	159	0.016 s	0.016 s
delayed inputs	159	0.016 s	0.000 s
gsubtract>calc_cell_	914	0.016 s	0.000 s
gsubtract>calc_general	914	0.016 s	0.016 s
gsubtract	924	0.016 s	0.000 s
normalize_error	1073	0.016 s	0.016 s
nndata_	159	0.016 s	0.000 s
nnsize	304	0.016 s	0.016 s
dx_dy	159	0.016 s	0.016 s
dz_dp	636	0.016 s	0.016 s
deal	181	0.016 s	0.016 s
plotregression	10	0.016 s	0.016 s
network.subsasgn>newLayer	10	0.016 s	0.000 s
network.subsasgn>setInputWeightLearnFcn	10	0.016 s	0.000 s
initwb>configure layer weight	230	0.016 s	0.016 s
normr	50	0.016 s	0.000 s
randnr>new value from rows cols	50	0.016 s	0.000 s
randnr	50	0.016 s	0.000 s
network.network>setnet	60	0.016 s	0.000 s
meshgrid	40	0.016 s	0.016 s
layer order	83	0.016 s	0.016 s
nndata pos	10	0.016 s	0.016 s
weedProcessSteps	31	0.016 s	0.016 s
normalize	144	0.015 s	0.015 s
num scalar	240	0.015 s	0.015 s
net_input_fcn	60	0.015 s	0.015 s
apply	776	0.015 s	0.015 s

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<u>cell2mat</u>	973	0.015 s	0.015 s
usejava	487	0.015 s	0.015 s
fileparts	159	0.015 s	0.015 s
flags	169	0.015 s	0.015 s
dividerand	20	0.015 s	0.015 s
network.subsasgn>setDivideFcn	10	0.015 s	0.015 s
network.subsasgn>setOutputConnect	20	0.015 s	0.000 s
initlay>configure_input_weight_	60	0.015 s	0.015 s
linspace	50	0.015 s	0.015 s
nnMATLAB_	31	0.015 s	0.015 s
<u>¥</u>	21	0.015 s	0.000 s
pc>fast_mat2cell	31	0.015 s	0.015 s
forward layer delays	21	0.015 s	0.000 s
forward layer delays>delays to layer	105	0.015 s	0.015 s
codeHints_	21	0.015 s	0.015 s
yy (MEX-file)	21	0.015 s	0.015 s
<u>convertNum</u>	1	0 s	0.000 s
cell.strmatch	1	0 s	0.000 s
<u>strmatch</u>	1	0 s	0.000 s
<u>unique</u>	13	0 s	0.000 s
unique>uniquelegacy_	13	0 s	0.000 s
<u>intmax</u>	26	0 s	0.000 s
<u>intmin</u>	13	0 s	0.000 s
name.	102	0 s	0.000 s
type.	51	0 s	0.000 s
performance fcn	51	0 s	0.000 s
string>strict_format_	50	0 s	0.000 s
network.subsasgn>setLayerName_	50	0 s	0.000 s
error norm mode	102	0 s	0.000 s

bool scalar	240	0 s	0.000 s
strict_pos_int_inf_scalar_	120	0 s	0.000 s
pos inf scalar	120	0 s	0.000 s
strict pos int scalar	151	0 s	0.000 s
over1	120	0 s	0.000 s
strict pos scalar	120	0 s	0.000 s
cell data	206	0 s	0.000 s
pos_int_vector	159	0 s	0.000 s
minargs.	3283	0 s	0.000 s
real 0 to 1>type check	222	0 s	0.000 s
error_norm_mode>type_check	102	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
info	60	0 s	0.000 s
parameterInfo	120	0 s	0.000 s
parameterInfo	100	0 s	0.000 s
parameterInfo	40	0 s	0.000 s
parameterInfo	700	0 s	0.000 s
name	60	0 s	0.000 s
type	60	0 s	0.000 s
name	50	0 s	0.000 s
type	50	0 s	0.000 s
outputRange_	50	0 s	0.000 s
activeInputRange_	50	0 s	0.000 s
<u>isScalar</u>	50	0 s	0.000 s
outputRange	350	0 s	0.000 s
activeInputRange	350	0 s	0.000 s
<u>isScalar</u>	350	0 s	0.000 s

name	390	0 s	0.000 s
type.	390	0 s	0.000 s
weightDerivType	390	0 s	0.000 s
name	10	0 s	0.000 s
type	10	0 s	0.000 s
processing fcn	70	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
type	40	0 s	0.000 s
type	350	0 s	0.000 s
net input fcn	10	0 s	0.000 s
nnetParam>nnetParam.nnetParam	10	0 s	0.000 s
network.subsasgn>setNumInputs	20	0 s	0.000 s
@network\private\isposint	80	0 s	0.000 s
@network\private\nn new input struct	10	0 s	0.000 s
repmat	20	0 s	0.000 s
repmat>create@(x)double(full(x))	20	0 s	0.000 s
repmat>@(x)double(full(x))	40	0 s	0.000 s
netsum	10	0 s	0.000 s
apply	20	0 s	0.000 s
apply	40	0 s	0.000 s
<u>adaptwb</u>	10	0 s	0.000 s

nnetParam>nnetParam.struct	160	0 s	0.000 s
nnfcnTraining>nnfcnTraining.gdefaults	10	0 s	0.000 s
gsqrt	636	0 s	0.000 s
dataHints	10	0 s	0.000 s
dataHints	21	0 s	0.000 s
<u>formatData</u>	21	0 s	0.000 s
output sizes	273	0 s	0.000 s
pos_int_vector>type_check	159	0 s	0.000 s
pos int scalar>type check	558	0 s	0.000 s
pos int scalar>strict format	120	0 s	0.000 s
jac s>remove dont_care_errors	159	0 s	0.000 s
config.	10	0 s	0.000 s
nnsize	21	0 s	0.000 s
jac s>outputs2layersE	159	0 s	0.000 s
jac_s>repcolint_	159	0 s	0.000 s
active fcns	159	0 s	0.000 s
dz dw	795	0 s	0.000 s
validation_start	10	0 s	0.000 s
getwb	41	0 s	0.000 s
formwb	41	0 s	0.000 s
getwb	20	0 s	0.000 s
nnCalcLib>nnCalcLib.getwb	20	0 s	0.000 s
start	10	0 s	0.000 s
status	60	0 s	0.000 s
check	31	0 s	0.000 s
<u>etime</u>	159	0 s	0.000 s
thworks.toolbox.nnet.guis.nnTrainTool (Java method)	318	0 s	0.000 s
y>active_fcns_	278	0 s	0.000 s
network.subsasgn>setTrainFcn_	10	0 s	0.000 s

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10	dividerand>divide indices	10	0 s	0.000 s
etwork.subsasgn>setAdaptFcn	plotperform	10	0 s	0.000 s
etwork.subsasgn>setBiasLearnFcn	plottrainstate	10	0 s	0.000 s
etwork.subsasgn>setLayerWeightLearnFcn	network.subsasgn>setAdaptFcn	10	0 s	0.000 s
etwork.subsasgn>setBiasConnect 20 0 s 0.000 s 21 0 s 0.000 s 22 0 s 0.000 s 23 0.000 s 24 0 s 0.000 s 25 0.000 s 26 0 s 0.000 s 27 1 0 s 0.000 s 27 1 0 s 0.000 s 28 0.000 s 29 0.000 s 29 0.000 s 29 0.000 s 20 0 s 0.000 s 20 0	network.subsasgn>setBiasLearnFcn	50	0 s	0.000 s
Renetwork\private\isbool 40 0 s 0.000 s etwork.subsasgn>newBias 50 0 s 0.000 s nitwb>configure_input_weight 40 0 s 0.000 s nittay>initialize_bias 50 0 s 0.000 s natrix_data>type_check 271 0 s 0.000 s ndata_type_check 206 0 s 0.000 s ndata_pos>type_check 10 0 s 0.000 s ndata_pos>strict_format 10 0 s 0.000 s ndata_pos>strict_format 10 0 s 0.000 s nitnw>configure_input_weight 20 0 s 0.000 s nitnw>configure_layer_weight 50 0 s 0.000 s ands 50 0 s 0.000 s ands>network\private\nr configure_bias 50 0 s 0.000 s etwork_subsasgn>newWeight 50 0 s 0.000 s etwork_subsasgn>newOutput 10 0 s 0.000 s etwork_subsasgn>subs1 280 0 s 0.000 s	network.subsasgn>setLayerWeightLearnFcn	40	0 s	0.000 s
etwork.subsasgn>newBias 50 0 s 0.000 s nitwb>initwb>initialize bias 50 0 s 0.000 s nitwb>configure input weight 40 0 s 0.000 s nitlay>initialize bias 50 0 s 0.000 s natrix data>type check 271 0 s 0.000 s ell data>type check 206 0 s 0.000 s natrix data>type check 10 0 s 0.000 s natrix data>strict format 343 0 s 0.000 s natrix data pos>strict format 10 0 s 0.000 s natrix data pos>strict format 10 0 s 0.000 s natrix data pos>strict format 10 0 s 0.000 s natrix data pos>strict format 50 0 s 0.000 s natrix data pos>strict format 50 0 s 0.000 s natrix data pos>strict format 50 0 s 0.000 s natrix data pos>strict format 50 0 s 0.000 s natrix data pos>strict format 50 0 s 0.000 s natrix data pos>strict format 50 0 s 0.000 s natrix data>strict format 50 0 s 0.000 s natrix data>trict data>t	network.subsasgn>setBiasConnect	20	0 s	0.000 s
50	@network\private\isbool	40	0 s	0.000 s
nitlay>initwb>configure_input_weight 40 0 s 0.000 s nitlay>initialize_bias 50 0 s 0.000 s natrix_data>type_check 271 0 s 0.000 s ell_data>type_check 206 0 s 0.000 s ndata_pos>type_check 10 0 s 0.000 s ndata>strict_format 343 0 s 0.000 s ndata_pos>strict_format 10 0 s 0.000 s ninmax 170 0 s 0.000 s nitnw>configure_input_weight 20 0 s 0.000 s nitnw>configure_layer_weight 50 0 s 0.000 s ands 50 0 s 0.000 s ands>new_value_from_rows_cols 50 0 s 0.000 s etwork_private\nr configure_bias 50 0 s 0.000 s etwork_subsasgn>newWeight 50 0 s 0.000 s etwork_subsasgn>newOutput 10 0 s 0.000 s etwork_subsasgn>subs1 280 0 s 0.000 s	network.subsasgn>newBias_	50	0 s	0.000 s
bitlay>initialize_bias 50 0 s 0.000 s natrix data>type_check 271 0 s 0.000 s nell_data>type_check 206 0 s 0.000 s ndata_pos>type_check 10 0 s 0.000 s ndata>strict_format 343 0 s 0.000 s ndata_pos>strict_format 10 0 s 0.000 s ndtnw>configure_input_weight 20 0 s 0.000 s ndtnw>configure_layer_weight 50 0 s 0.000 s nds>new_value_from_rows_cols 50 0 s 0.000 s network_private\nn_configure_bias 50 0 s 0.000 s nxtract_param 60 0 s 0.000 s	initwb>initialize bias	50	0 s	0.000 s
natrix data>type check 271 0 s 0.000 s ell data>type check 206 0 s 0.000 s ndata_pos>type_check 10 0 s 0.000 s ndata>strict format 343 0 s 0.000 s ndata_pos>strict format 10 0 s 0.000 s ninmax 170 0 s 0.000 s nitnw>configure input weight 20 0 s 0.000 s nitnw>configure layer weight 50 0 s 0.000 s ands 50 0 s 0.000 s ands>new value from rows cols 50 0 s 0.000 s ands>network\private\nn configure bias 50 0 s 0.000 s etwork.subsasgn>newWeight 50 0 s 0.000 s etwork.subsasgn>newOutput 10 0 s 0.000 s etwork.subsasgn>subs1 280 0 s 0.000 s	initwb>configure input weight	40	0 s	0.000 s
ell data>type check 206 0 s 0.000 s indata pos>type check 10 0 s 0.000 s lata>strict format 343 0 s 0.000 s indata pos>strict format 10 0 s 0.000 s ininmax 170 0 s 0.000 s intrw>configure input weight 20 0 s 0.000 s intrw>configure layer weight 50 0 s 0.000 s ands 50 0 s 0.000 s ands>new value from rows cols 50 0 s 0.000 s etwork\private\nn configure bias 50 0 s 0.000 s etwork.subsasgn>newWeight 50 0 s 0.000 s etwork.subsasgn>newOutput 10 0 s 0.000 s etwork.subsasgn>subs1 280 0 s 0.000 s	initlay>initialize_bias_	50	0 s	0.000 s
Indata_pos>type_check 10 0 s 0.000 s Iata>strict_format 343 0 s 0.000 s Indata_pos>strict_format 10 0 s 0.000 s Ininmax 170 0 s 0.000 s Initnw>configure_input_weight 20 0 s 0.000 s Initnw>configure_layer_weight 50 0 s	matrix data>type check	271	0 s	0.000 s
lata>strict format 343 0 s 0.000 s nndata pos>strict format 10 0 s 0.000 s ninmax 170 0 s 0.000 s nitnw>configure input weight 20 0 s 0.000 s nitnw>configure layer weight 50 0 s 0.000 s ands 50 0 s 0.000 s ands>new value from rows cols 50 0 s 0.000 s entwork\private\nn configure bias 50 0 s 0.000 s etwork.subsasgn>newWeight 50 0 s 0.000 s ize 340 0 s 0.000 s etwork.subsasgn>newOutput 10 0 s 0.000 s etwork.subsasgn>subs1 280 0 s 0.000 s	cell data>type check	206	0 s	0.000 s
Indata pos>strict format 10 0 s 0.000 s Ininmax 170 0 s 0.000 s Initnw>configure input weight 20 0 s 0.000 s Initnw>configure layer weight 50	nndata_pos>type_check_	10	0 s	0.000 s
ninmax 170 0 s 0.000 s nitnw>configure input weight 20 0 s 0.000 s nitnw>configure layer weight 50 0 s 0.000 s ands 50 0 s 0.000 s ands>new value from rows cols 50 0 s 0.000 s 2network\private\nn configure bias 50 0 s 0.000 s etwork.subsasgn>newWeight 50 0 s 0.000 s extract_param 60 0 s 0.000 s ize 340 0 s 0.000 s etwork.subsasgn>newOutput 10 0 s 0.000 s etwork.subsasgn>subs1 280 0 s 0.000 s	data>strict_format_	343	0 s	0.000 s
nitnw>configure input weight 20 0 s 0.000 s nitnw>configure layer weight 50 0 s 0.000 s ands 50 0 s 0.000 s ands>new value from rows cols 50 0 s 0.000 s 2network\private\nn configure bias 50 0 s 0.000 s etwork.subsasgn>newWeight 50 0 s 0.000 s extract_param 60 0 s 0.000 s ize 340 0 s 0.000 s etwork.subsasgn>newOutput 10 0 s 0.000 s etwork.subsasgn>subs1 280 0 s 0.000 s	ndata pos>strict format	10	0 s	0.000 s
nitnw>configure layer weight 50 0 s 0.000 s ands 50 0 s 0.000 s ands>new value from rows cols 50 0 s 0.000 s 2network\private\nn configure bias 50 0 s 0.000 s etwork.subsasgn>newWeight 50 0 s 0.000 s extract_param 60 0 s 0.000 s ize 340 0 s 0.000 s etwork.subsasgn>newOutput 10 0 s 0.000 s etwork.subsasgn>subs1 280 0 s 0.000 s	ninmax_	170	0 s	0.000 s
ands 50 0 s 0.000 s ands>new value from rows cols 50 0 s 0.000 s 2network\private\nn configure bias 50 0 s 0.000 s etwork.subsasgn>newWeight 50 0 s 0.000 s extract_param 60 0 s 0.000 s ize 340 0 s 0.000 s etwork.subsasgn>newOutput 10 0 s 0.000 s etwork.subsasgn>subs1 280 0 s 0.000 s	nitnw>configure input weight	20	0 s	0.000 s
ands>new value from rows cols 50 0 s 0.000 s 2network\private\nn configure bias 50 0 s 0.000 s etwork.subsasgn>newWeight 50 0 s 0.000 s extract_param 60 0 s 0.000 s ize 340 0 s 0.000 s etwork.subsasgn>newOutput 10 0 s 0.000 s etwork.subsasgn>subs1 280 0 s 0.000 s	nitnw>configure layer weight	50	0 s	0.000 s
©network\private\nn configure bias 50 0 s 0.000 s etwork.subsasgn>newWeight 50 0 s 0.000 s extract_param 60 0 s 0.000 s ize 340 0 s 0.000 s etwork.subsasgn>newOutput 10 0 s 0.000 s etwork.subsasgn>subs1 280 0 s 0.000 s	rands.	50	0 s	0.000 s
etwork.subsasgn>newWeight 50 0 s 0.000 s extract_param 60 0 s 0.000 s ize 340 0 s 0.000 s etwork.subsasgn>newOutput 10 0 s 0.000 s etwork.subsasgn>subs1 280 0 s 0.000 s	rands>new value from rows cols	50	0 s	0.000 s
etwork.subsasgn>newOutput 60 0 s 0.000 s 10 0 s 0.000 s	@network\private\nn_configure_bias_	50	0 s	0.000 s
ize 340 0 s 0.000 s etwork.subsasgn>newOutput 10 0 s 0.000 s etwork.subsasgn>subs1 280 0 s 0.000 s	network.subsasgn>newWeight_	50	0 s	0.000 s
etwork.subsasgn>newOutput 10 0 s 0.000 s etwork.subsasgn>subs1 280 0 s 0.000 s	extract_param_	60	0 s	0.000 s
etwork.subsasgn>subs1 280 0 s 0.000 s	size_	340	0 s	0.000 s
	network.subsasgn>newOutput	10	0 s	0.000 s
etwork.subsasgn>subs2 60 0 s 0.000 s	network.subsasgn>subs1_	280	0 s	0.000 s
	network.subsasgn>subs2	60	0 s	0.000 s

240 0 s 0.000 s 0			ı	
strict_pos_int_inf_scalar>type_check	network.subsasgn>setInitFcn	10	0 s	0.000 s
120 0 s 0.000 s	bool_scalar>type_check	240	0 s	0.000 s
atrict_pos_int_scalar≥type_check	strict pos int inf scalar>type check	120	0 s	0.000 s
checkOptions 31 0 s 0.000 s over1>type_check 120 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 override 31 0 s 0.000 s expandFile 31 0 s 0.000 s onT 10 0 s 0.000 s onAlex 21 0 s 0.000 s onetCheck 20 0 s 0.000 s onetCheck 20 0 s 0.000 s onetTrainingRecord 10 0 s 0.000 s onetTrainingRecord 10 0 s 0.000 s onetEmptyWeights 31 0 s 0.000 s onetTrainingRecord 10 0 s 0.000 s onetTrainingRecord 31 0 s 0.000 s onetTrainingRecord 31 0 s 0.000 s onetTrainingRecord 31 0 s	pos inf scalar>type check	120	0 s	0.000 s
120 0 s 0.000 s	strict_pos_int_scalar>type_check	151	0 s	0.000 s
trict pos scalar>type_check 120	checkOptions	31	0 s	0.000 s
10	over1>type_check_	120	0 s	0.000 s
extractNameValuePairs 31 0 s 0.000 s defaults 31 0 s 0.000 s expandFile 30 0 s 0.000 s expandFile 31 0 s 0.000 s expandFile 31 0 s 0.000 s expandFile 30 0 s 0.000 s expandFile 30 0 s 0.000 s expandFile 30 0 s 0.000 s expandFile<	strict_pos_scalar>type_check_	120	0 s	0.000 s
defaults 31 0 s 0.000 s expandFile 31 0 s 0.000 s expandFile 31 0 s 0.000 s endT 10 0 s 0.000 s endMex 21 0 s 0.000 s eargPairs2Struct 62 0 s 0.000 s eetCheck 20 0 s 0.000 s eetEcns 42 0 s 0.000 s eix nan inputs 10 0 s 0.000 s enat2cell 61 0 s 0.000 s enat2cell 61 0 s 0.000 s enat2cell 10 0 s 0.000 s enat2cell 10 0 s 0.000 s enat2cell 10 0 s 0.000 s estup1>checkPdImplemented 31 0 s 0.000 s estup1>checkPdImplemented 31 0 s 0.000 s estup1 sizes 52 0 s 0.000 s diplr 61 0 s 0.000 s diplr 20 0 s 0.000 s aver_sizes	net	10	0 s	0.000 s
override 31 0 s 0.000 s expandFile 31 0 s 0.000 s nn7 10 0 s 0.000 s nnMex 21 0 s 0.000 s argPairs2Struct 62 0 s 0.000 s netCheck 20 0 s 0.000 s netFcns 42 0 s 0.000 s ix nan inputs 10 0 s 0.000 s nnetTrainingRecord 10 0 s 0.000 s oruneEmptyWeights 31 0 s 0.000 s starts 51 0 s 0.000 s starts 52 0 s 0.000 s liplr 61 0 s 0.000 s ayer_sizes 94 0 s 0.000 s	extractNameValuePairs_	31	0 s	0.000 s
20	defaults	31	0 s	0.000 s
nn7 10 0 s 0.000 s nnMex 21 0 s 0.000 s netCheck 62 0 s 0.000 s netFcns 42 0 s 0.000 s nix nan inputs 10 0 s 0.000 s nat2cell 61 0 s 0.000 s nnetTrainingRecord 10 0 s 0.000 s nettptyWeights 31 0 s 0.000 s setup1>checkPdImplemented 31 0 s 0.000 s starts 51 0 s 0.000 s nput sizes 52 0 s 0.000 s dip 20 0 s 0.000 s ayer_sizes 94 0 s 0.000 s	<u>override</u>	31	0 s	0.000 s
nnMex. 21 0 s 0.000 s argPairs2Struct 62 0 s 0.000 s netCheck 20 0 s 0.000 s netFcns. 42 0 s 0.000 s ix nan inputs 10 0 s 0.000 s mat2cell 61 0 s 0.000 s nnetTrainingRecord. 10 0 s 0.000 s pruneEmptyWeights 31 0 s 0.000 s setup1>checkPdImplemented 31 0 s 0.000 s starts 51 0 s 0.000 s diplr 61 0 s 0.000 s diplr 61 0 s 0.000 s ayer_sizes 94 0 s 0.000 s	<u>expandFile</u>	31	0 s	0.000 s
argPairs2Struct 62 0 s 0.000 s netCheck 20 0 s 0.000 s netEcns 42 0 s 0.000 s fix nan inputs 10 0 s 0.000 s mat2cell 61 0 s 0.000 s nnetTrainingRecord 10 0 s 0.000 s pruneEmptyWeights 31 0 s 0.000 s setup1>checkPdImplemented 31 0 s 0.000 s starts 51 0 s 0.000 s diplr 61 0 s 0.000 s diplr 20 0 s 0.000 s ayer_sizes 94 0 s 0.000 s	nn7	10	0 s	0.000 s
netCheck 20 0 s 0.000 s netFcns 42 0 s 0.000 s rix nan inputs 10 0 s 0.000 s mat2cell 61 0 s 0.000 s nnetTrainingRecord 10 0 s 0.000 s pruneEmptyWeights 31 0 s 0.000 s setup1>checkPdImplemented 31 0 s 0.000 s starts 51 0 s 0.000 s prunt_sizes 52 0 s 0.000 s diplr 61 0 s 0.000 s diplr 20 0 s 0.000 s ayer_sizes 94 0 s 0.000 s	nnMex	21	0 s	0.000 s
netFcns. 42 0 s 0.000 s fix nan inputs 10 0 s 0.000 s mat2cell 61 0 s 0.000 s nnetTrainingRecord 10 0 s 0.000 s pruneEmptyWeights 31 0 s 0.000 s setup1>checkPdImplemented 31 0 s 0.000 s starts 51 0 s 0.000 s nput_sizes 52 0 s 0.000 s diplr 61 0 s 0.000 s dipl 20 0 s 0.000 s ayer_sizes 94 0 s 0.000 s	argPairs2Struct	62	0 s	0.000 s
fix nan inputs 10 0 s 0.000 s mat2cell 61 0 s 0.000 s nnetTrainingRecord 10 0 s 0.000 s oruneEmptyWeights 31 0 s 0.000 s setup1>checkPdImplemented 31 0 s 0.000 s starts 51 0 s 0.000 s nput_sizes 52 0 s 0.000 s tlipIr 61 0 s 0.000 s dlip 20 0 s 0.000 s ayer_sizes 94 0 s 0.000 s	netCheck_	20	0 s	0.000 s
mat2cell 61 0 s 0.000 s nnetTrainingRecord 10 0 s 0.000 s pruneEmptyWeights 31 0 s 0.000 s setup1>checkPdImplemented 31 0 s 0.000 s starts 51 0 s 0.000 s nput_sizes 52 0 s 0.000 s diplr 61 0 s 0.000 s dipl 20 0 s 0.000 s ayer_sizes 94 0 s 0.000 s	netFcns_	42	0 s	0.000 s
nnetTrainingRecord 10 0 s 0.000 s oruneEmptyWeights 31 0 s 0.000 s setup1>checkPdImplemented 31 0 s 0.000 s starts 51 0 s 0.000 s nput_sizes 52 0 s 0.000 s diplr 61 0 s 0.000 s dipl 20 0 s 0.000 s ayer_sizes 94 0 s 0.000 s	fix nan inputs	10	0 s	0.000 s
oruneEmptyWeights 31 0 s 0.000 s setup1>checkPdImplemented 31 0 s 0.000 s starts 51 0 s 0.000 s nput_sizes 52 0 s 0.000 s diplr 61 0 s 0.000 s dip 20 0 s 0.000 s ayer_sizes 94 0 s 0.000 s	mat2cell	61	0 s	0.000 s
setup1>checkPdImplemented 31 0 s 0.000 s starts 51 0 s 0.000 s nput_sizes 52 0 s 0.000 s diplr 61 0 s 0.000 s dip 20 0 s 0.000 s ayer_sizes 94 0 s 0.000 s	nnetTrainingRecord	10	0 s	0.000 s
starts 51 0 s 0.000 s nput_sizes 52 0 s 0.000 s liplr 61 0 s 0.000 s lip 20 0 s 0.000 s ayer_sizes 94 0 s 0.000 s	<u>pruneEmptyWeights</u>	31	0 s	0.000 s
nput_sizes 52 0 s 0.000 s flipIr 61 0 s 0.000 s flip 20 0 s 0.000 s ayer_sizes 94 0 s 0.000 s	setup1>checkPdImplemented	31	0 s	0.000 s
Silipir 61 0 s 0.000 s Silip 20 0 s 0.000 s ayer sizes 94 0 s 0.000 s	starts.	51	0 s	0.000 s
20	input_sizes_	52	0 s	0.000 s
ayer_sizes 94 0 s 0.000 s	fliplr	61	0 s	0.000 s
	flip	20	0 s	0.000 s
netHints>simlayorder 10 0 s 0.000 s	layer_sizes	94	0 s	0.000 s
	netHints>simlayorder	10	0 s	0.000 s

defaultderiv	10	0 s	0.000 s
formatNet	10	0 s	0.000 s
<u>formatData</u>	10	0 s	0.000 s
<u>codeHints</u>	10	0 s	0.000 s
nnCalcLib>nnCalcLib.nnCalcLib	31	0 s	0.000 s
<u>summary</u>	10	0 s	0.000 s
<u>summary</u>	21	0 s	0.000 s
<u>finalize</u>	10	0 s	0.000 s
network.sim>getXf	10	0 s	0.000 s
<u>parseArgs</u>	12	0 s	0.000 s
parseArgs_	12	0 s	0.000 s
trace	12	0 s	0.000 s

 $\textbf{Self time} \ \ \text{is the time spent in a function excluding the time spent in its child f Self time also includes overhead resulting from the process of profiling. }$

functions