Profile Summary

Generated 20-Dec-2017 10:03:15 using performance time.

Function Name	Calls	Total Time	Self Time*
XSteam	2765435	170.444 s	53.207 s
XSteam>h4_s	1886400	28.220 s	28.220 s
XSteam>p2_hs	1886400	26.516 s	26.516 s
AinleyMathiesonLosses	89239	35.094 s	21.162 s
XSteam>s2_pT	294563	11.012 s	11.012 s
XSteam>T2_ph	543568	8.560 s	8.560 s
XSteam>region_hs	1886400	35.220 s	7.000 s
solve_rotorREAL	46623	104.299 s	6.281 s
XSteam>w2_pT	93366	6.055 s	6.055 s
solve_statorREAL	42616	91.703 s	5.546 s
init_point	93366	4.939 s	4.939 s
...a1p).*abs(X1(a1p,solidity).^n1(a1p)))	89239	9.449 s	4.872 s
...P1.pTrel-pT2rel(s))/(pT2rel(s)-p2(s))	279738	50.936 s	4.372 s
...;@(s)Yp-(P0.pT-pT1(s))/(pT1(s)-p1(s))	255696	47.616 s	4.105 s
solve_triangles_and_point0	601	245.431 s	3.743 s
XSteam>v2_pT	190860	3.559 s	3.559 s
XSteam>toSIunit_h	2425841	3.538 s	3.538 s
XSteam>h2_pT	128097	2.686 s	2.686 s
secants	89239	101.194 s	2.642 s
...dity).^2-C2(a1p).*X2(a1p,solidity).^3	89239	4.340 s	2.443 s
XSteam>toSIunit_s	2006243	2.366 s	2.366 s

Total Time Plot (dark band = self time)
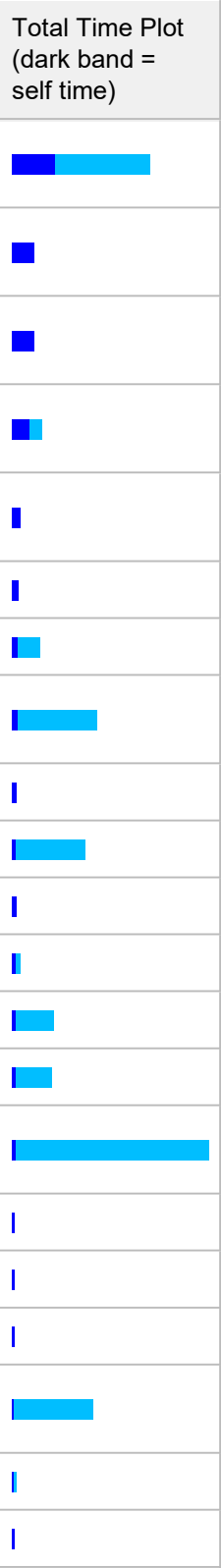
XSteam>fromSIunit_p	1882273	2.294 s	2.294 s
...>@(s)XSteam('p_hs',P.hTrel/1000,s)	559476	31.218 s	2.164 s
XSteam>region_ph	628680	3.354 s	2.083 s
XSteam>Cp2_pT	93367	2.039 s	2.039 s
...EAL>@(s)XSteam('p_hs',P.hT/1000,s)	511392	29.181 s	2.019 s
XSteam>T2_ps	119843	1.976 s	1.976 s
XSteam>my_AllRegions_ph	89239	5.122 s	1.643 s
XSteam>T4_p	748523	1.526 s	1.526 s
...ty)1./solidity-min_inv_solidity1(a1p)	267717	2.495 s	1.415 s
XSteam>toSIunit_p	879035	1.395 s	1.395 s
inlineif	892390	1.349 s	1.349 s
mean	93246	1.142 s	1.142 s
...REAL>@(s)XSteam('p_hs',P.h/1000,s)	279738	15.345 s	1.135 s
...REAL>@(s)XSteam('p_hs',P.h/1000,s)	255696	14.330 s	1.060 s
XSteam>s5_pT	119843	1.023 s	1.023 s
...ty)1./solidity-min_inv_solidity2(a1p)	178478	1.242 s	1.001 s
XSteam>region_ps	119843	11.058 s	0.852 s
...a1p<=30,0.46+a1p/77,0.614+a1p/130)	267717	1.080 s	0.684 s
XSteam>region_pT	223878	0.991 s	0.682 s
...025+(27-a1p)/530,0.025+(27-a1p)/3085)	178478	0.909 s	0.612 s
...:=30,0.1583-a1p/1640,0.1583-a1p/1640)	178478	0.752 s	0.504 s
velocity_triangle	4127	0.453 s	0.423 s
XSteam>fromSIunit_T	318467	0.409 s	0.409 s
main_preliminary	1	246.431 s	0.369 s
XSteam>B23p_T	223878	0.310 s	0.310 s
XSteam>toSIunit_T	219751	0.292 s	0.292 s
XSteam>Cv2_pT	4128	0.268 s	0.268 s
...=30,0.3+(30-a1p)/50,0.3+(30-a1p)/275)	89239	0.388 s	0.256 s
...@(a1p)0.224+1.575*(a1p/90)-(a1p/90)^2	178478	0.241 s	0.241 s

[pressure_temperature_from_totalREAL](#)	4127	3.244 s	0.206 s
[XSteam>fromSIunit_h](#)	128097	0.176 s	0.176 s
[...onregistry.UnlicensedFunctionRegistry](#) (Java method)	2	0.159 s	0.159 s
[XSteam>fromSIunit_my](#)	93366	0.147 s	0.147 s
[XSteam>fromSIunit_w](#)	93366	0.147 s	0.147 s
[AinleyMathiesonLosses>@(a1p)1+a1p/30](#)	89239	0.145 s	0.145 s
[...onLosses>@(a1p)0.08*((a1p/30)^2-1)](#)	89239	0.141 s	0.141 s
[XSteam>fromSIunit_v](#)	97494	0.139 s	0.139 s
[XSteam>fromSIunit_Cp](#)	93367	0.139 s	0.139 s
[...es>@(a1p)0.242-a1p/151+(a1p/127)^2](#)	89239	0.134 s	0.134 s
[...s>@(a1p)0.88-a1p/42.4+(a1p/72.8)^2](#)	89239	0.133 s	0.133 s
[print](#)	601	0.149 s	0.097 s
[XSteam>fromSIunit_s](#)	54877	0.088 s	0.088 s
[XSteam>my_AllRegions_pT](#)	4127	0.174 s	0.087 s
[yyaxis](#)	6	0.094 s	0.043 s
[rad2deg](#)	24762	0.042 s	0.042 s
[int2str](#)	601	0.037 s	0.037 s
[viaEig](#)	571	0.035 s	0.035 s
[unique>uniqueR2012a](#)	11	0.023 s	0.023 s
[normest1](#)	2	0.041 s	0.022 s
[title](#)	4	0.023 s	0.020 s
[newplot](#)	27	0.065 s	0.019 s
[...A,epsilon)mdot/(rho*Dm*pi*vA*epsilon)](#)	8254	0.018 s	0.018 s
[unique](#)	11	0.040 s	0.017 s
[grid](#)	1	0.017 s	0.016 s
[newplot>ObserveAxesNextPlot](#)	27	0.038 s	0.016 s
[plotMinMax](#)	8	0.049 s	0.015 s
[num2str](#)	601	0.052 s	0.015 s
[...1)-chi*(deltaV02SQ-deltaVaSQ)/deltaVt](#)	4127	0.014 s	0.014 s

..._Dm*60^2/pi^2/n^2*phi*epsilon))^(1/3)	4127	0.013 s	0.013 s
...b_su_Dm*60^2/pi^2/n^2*phi*u^3*epsilon	4127	0.011 s	0.011 s
findall	3	0.013 s	0.011 s
XSteam>fromSIunit_Cv	4128	0.011 s	0.011 s
surf	1	0.109 s	0.011 s
graphics\private\clo	6	0.010 s	0.010 s
ismember>ismemberR2012a	6	0.036 s	0.010 s
hold	9	0.013 s	0.010 s
uistack	2	0.075 s	0.010 s
ismember>ismemberBuiltinTypes	6	0.010 s	0.010 s
normest1>undupli	6	0.010 s	0.009 s
getChildrenForRuler	3	0.009 s	0.009 s
findUnlicensedFunctions	1	0.182 s	0.007 s
cla	6	0.022 s	0.007 s
gobjects	57	0.007 s	0.007 s
ismember	6	0.042 s	0.006 s
allchild	4	0.011 s	0.006 s
condest	2	0.049 s	0.006 s
axescheck	10	0.005 s	0.005 s
graphics\private\claNotify	6	0.005 s	0.005 s
hgbehaviorfactory>localGetBehaviorInfo	3	0.005 s	0.005 s
normest1>normapp	12	0.008 s	0.005 s
markFigure	17	0.005 s	0.005 s
dlmread	2	0.037 s	0.005 s
convertStringToCharArgs	5	0.008 s	0.004 s
...Manager>YYAxisEventManager.addAxes	3	0.012 s	0.004 s
configureAxes>checkDim	3	0.012 s	0.004 s
polyfit	2	0.053 s	0.004 s
convertStringsToChars	5	0.004 s	0.004 s

ismember>ismemberClassTypes	2	0.021 s	0.004 s
yyaxis>yynextstyle	6	0.004 s	0.004 s
hggetbehavior>localGet	3	0.014 s	0.003 s
...YYAxisEventManager.YYAxisEventManager	3	0.016 s	0.003 s
condest>condestf	12	0.003 s	0.003 s
setdiff>setdiffR2012a	2	0.027 s	0.003 s
fullfile	1	0.008 s	0.003 s
UnsupportedInUifigure	2	0.005 s	0.003 s
hgbehaviorfactory>localCreate	3	0.008 s	0.003 s
ctorHelper	1	0.005 s	0.003 s
view>ViewCore	2	0.005 s	0.003 s
collectOutput>getTypesLengths	2	0.003 s	0.003 s
...isEventManager.installReparentWatcher	3	0.002 s	0.002 s
parseparams	1	0.002 s	0.002 s
repmat	1	0.003 s	0.002 s
fileparts	1	0.003 s	0.002 s
findUnlicensedFunctions>getFunctionData	1	0.173 s	0.002 s
union>unionR2012a	3	0.004 s	0.002 s
union	3	0.006 s	0.002 s
Surface.Surface>Surface.doSetup	1	0.002 s	0.002 s
allchild>getchildren	4	0.002 s	0.002 s
view	2	0.008 s	0.002 s
newplot>ObserveFigureNextPlot	27	0.002 s	0.002 s
caxis	1	0.002 s	0.002 s
...er>YYAxisEventManager.registerAxes	3	0.017 s	0.002 s
csvread	2	0.039 s	0.002 s
extractBefore	1	0.002 s	0.002 s
configureAxes>checkChildren	1	0.015 s	0.001 s
onCleanup>onCleanup.delete	13	0.005 s	0.001 s

uistack>getNewOrder	2	0.012 s	0.001 s
...set(rootobj,'ShowHiddenHandles',Temp)	4	0.001 s	0.001 s
fullfile>refinePath	1	0.003 s	0.001 s
isCharOrString	13	0.001 s	0.001 s
load_csv_poly	2	0.093 s	0.001 s
Surface.Surface>Surface.Surface	1	0.008 s	0.001 s
normest1>mysign	11	0.001 s	0.001 s
collectOutput>mergeColumns	2	0.001 s	0.001 s
UnsupportedInUifigure>isWebFigure	2	0.001 s	0.001 s
...>showHiddenHandlesToFindAllHandles	3	0.001 s	0.001 s
uistack>handleConvert	2	0.003 s	0.001 s
uistack>@(x)handle(x)	6	0.001 s	0.001 s
vec2mat	1	0.001 s	0.001 s
makeNumeric>numericDim	3	0.001 s	0.001 s
collectOutput	2	0.005 s	0.001 s
graph3d\private\surfchk	1	0.002 s	0.001 s
linspace	7	0.001 s	0.001 s
setdiff	2	0.028 s	0.001 s
fullfile>addTrailingFileSep	1	0.001 s	0.001 s
hggetbehavior	3	0.015 s	0.001 s
getRulersForChild	1	0.001 s	0.001 s
yyaxis>deleteallpins	3	0.014 s	0.001 s
onCleanup>onCleanup.onCleanup	16	0.001 s	0.001 s
graph2d\private\labelcheck	4	0.001 s	0.001 s
parseplotapi	1	0.005 s	0.001 s
startsWith	1	0.001 s	0.001 s
uitools\private\allchildRootHelper	4	0.001 s	0.001 s
makeNumeric	1	0.004 s	0.001 s
hggetbehavior>localPeek	3	0.001 s	0.001 s

usev6plotapi	1	0.001 s	0.001 s
fullfile>fixIRI	1	0.002 s	0.001 s
...@(obj,evd)(hObj.sendDataChangedEvent)	3	0.001 s	0.001 s
configureAxes>classcheck	3	0.001 s	0.001 s
configureAxes	1	0.015 s	0.001 s
surf>isplottable	3	0.001 s	0.001 s
...>Surface.doSetup/localZDataChanged	1	0.001 s	0.001 s
graph3d\private\surfchk>iscomplex	4	0.001 s	0.001 s
...set(rootobj,'ShowHiddenHandles',Temp)	3	0.001 s	0.001 s
condest>@()warning(warns)	2	0.001 s	0.001 s
polyfit>warnIfLargeConditionNumber	2	0.049 s	0.001 s
view>isAxesHandle	2	0.001 s	0.001 s
hgbehaviorfactory	3	0.009 s	0.001 s
usejava	1	0.000 s	0.000 s
...ehavior>Rotate3dBehavior.dosupport	3	0.000 s	0.000 s
convertStringsToChars>convertStrings	3	0.000 s	0.000 s
...>Rotate3dBehavior.Rotate3dBehavior	3	0.001 s	0.000 s
strfun\private\isTextStrict	2	0.000 s	0.000 s
fullfile>ensureTrailingFilesep	1	0.002 s	0.000 s
ispc	1	0.000 s	0.000 s
repmat>checkSizesType	1	0.000 s	0.000 s
meshgrid	1	0.000 s	0.000 s
UnsupportedInUifigure>@()warning(w)	2	0.000 s	0.000 s
str...te\convertStringToOriginalTextType	1	0.000 s	0.000 s
HGBehavior>HGBehavior.HGBehavior	3	0.000 s	0.000 s
...figure>@()lastwarn(lastmsg,lastid)	2	0.000 s	0.000 s
...Surface.doSetup/localXDataModeChanged	1	0.000 s	0.000 s
...Surface.doSetup/localYDataModeChanged	1	0.000 s	0.000 s
findDisabledAddons	1	0.000 s	0.000 s

findUnlicensedFunctions>addBaseCode	1	0.000 s	0.000 s

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

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