

Symbol Table - *LPSolver_st*

December 18, 2021

Scope : <i>global</i>						
Id	type	precision	Dtype	ndim	Attributes	ref
testLPSolver	Main					<ast.Main object at 0x14b57f4d2fd0>
ProbabilityDistribution	Module					<ast.Module object at 0x14b57f2e7250>
ProbabilityGeneration	Module					<ast.Module object at 0x14b57f2e7450>
LPPGeneration	Module					<ast.Module object at 0x14b57f2bcb10>
LinearProblemSolver	Module					<ast.Module object at 0x14b57f3b9810>
Algorithm	Module					<ast.Module object at 0x14b57f3a0990>
Statistics	Module					<ast.Module object at 0x14b57f3b4d90>
HistogramPlot	Module					<ast.Module object at 0x14b57f3ea390>
Postprocessor	Module					<ast.Module object at 0x14b57f406410>
LPTools	Module					<ast.Module object at 0x14b57f3f4610>
LAOperators	Module					<ast.Module object at 0x14b57f3ff890>
LAPACKOperators	Module					<ast.Module object at 0x14b57f1ec290>
Augment	Module					<ast.Module object at 0x14b57f1f37d0>
GeoGebra	Module					<ast.Module object at 0x14b57f209550>

Scope : <i>testLPSolver</i> - Main						
Id	type	precision	Dtype	ndim	Attributes	ref

Scope : <i>ProbabilityDistribution</i> - Module						
Id	type	precision	Dtype	ndim	Attributes	ref
UniformDist	Function				result(u)	<ast.Function object at 0x14b57f3ac050>
NormalDist	Function				result(n)	<ast.Function object at 0x14b57f2bc310>

Scope : <i>UniformDist</i> - Function						
Id	type	precision	Dtype	ndim	Attributes	ref
seed	Scalar	8	integer			<ast.Declaration object at 0x14b57f2e7cd0>
IA	Scalar	8	integer		['parameter']	<ast.Declaration object at 0x14b57f2e7610>
IM	Scalar	8	integer		['parameter']	<ast.Declaration object at 0x14b57f2e7610>
IQ	Scalar	8	integer		['parameter']	<ast.Declaration object at 0x14b57f2e7610>
IR	Scalar	8	integer		['parameter']	<ast.Declaration object at 0x14b57f2e7610>
am	Scalar	16	real		['save']	<ast.Declaration object at 0x14b57f2e7390>
ix	Scalar	8	integer		['save']	<ast.Declaration object at 0x14b57f3ac0d0>

iy	Scalar	8	integer		['save']	<ast.Declaration object at 0x14b57f3ac0d0>
k	Scalar	8	integer		['save']	<ast.Declaration object at 0x14b57f3ac0d0>
u	Scalar	16	real			<ast.Declaration object at 0x14b57f2e7110>

Scope : <i>NormalDist</i> - Function						
Id	type	precision	Dtype	ndim	Attributes	ref
seed	Scalar	8	integer			<ast.Declaration object at 0x14b57f3aced0>
PI	Scalar	16	real		['parameter']	<ast.Declaration object at 0x14b57f3ac690>
u1	Scalar	16	real			<ast.Declaration object at 0x14b57f3ac950>
u2	Scalar	16	real			<ast.Declaration object at 0x14b57f3ac950>
n	Scalar	16	real			<ast.Declaration object at 0x14b57f3acad0>

Scope : <i>ProbabilityGeneration</i> - Module						
Id	type	precision	Dtype	ndim	Attributes	ref
ProbVecGen	Subroutine					<ast.Subroutine object at 0x14b57f3ad050>
ProbMatGen	Subroutine					<ast.Subroutine object at 0x14b57f3adb50>

Scope : <i>ProbVecGen</i> - Subroutine						
Id	type	precision	Dtype	ndim	Attributes	ref
v	Array	16	real	1		<ast.Declaration object at 0x14b57f2bcd90>
seed	Scalar	8	integer			<ast.Declaration object at 0x14b57f2bcf90>
count	Scalar	8	integer			<ast.Declaration object at 0x14b57f2bcf90>
i	Scalar	4	integer			<ast.Declaration object at 0x14b57f2bce50>

Scope : <i>ProbMatGen</i> - Subroutine						
Id	type	precision	Dtype	ndim	Attributes	ref
M	Array	16	real	2		<ast.Declaration object at 0x14b57f3ad390>
seed	Scalar	8	integer			<ast.Declaration object at 0x14b57f3ad9d0>
count	Scalar	8	integer			<ast.Declaration object at 0x14b57f3ad9d0>
i	Scalar	4	integer			<ast.Declaration object at 0x14b57f3adad0>
j	Scalar	4	integer			<ast.Declaration object at 0x14b57f3adad0>

Scope : <i>LPPGeneration</i> - Module						
Id	type	precision	Dtype	ndim	Attributes	ref
LPPGen	Subroutine					<ast.Subroutine object at 0x14b57f3b9410>

Scope : <i>LPPGen</i> - Subroutine						
Id	type	precision	Dtype	ndim	Attributes	ref
A	Array	16	real	2		<ast.Declaration object at 0x14b57f3b9710>
b	Array	16	real	1		<ast.Declaration object at 0x14b57f3b9710>
c	Array	16	real	1		<ast.Declaration object at 0x14b57f3b9710>
seed	Scalar	8	integer			<ast.Declaration object at 0x14b57f3b9890>
count	Scalar	8	integer			<ast.Declaration object at 0x14b57f3b9890>
i	Scalar	4	integer			<ast.Declaration object at 0x14b57f3b9990>
j	Scalar	4	integer			<ast.Declaration object at 0x14b57f3b9990>

Scope : <i>LinearProblemSolver</i> - Module						
Id	type	precision	Dtype	ndim	Attributes	ref
CanonicalForm	Subroutine					<ast.Subroutine object at 0x14b57f3b9f90>

EqualityForm	Subroutine					<ast.Subroutine object at 0x14b57f3c75d0>
StandardForm	Subroutine					<ast.Subroutine object at 0x14b57f3b6610>
LeastNegativeForm	Subroutine					<ast.Subroutine object at 0x14b57f3ce2d0>

Scope : <i>CanonicalForm</i> - Subroutine						
Id	type	precision	Dtype	ndim	Attributes	ref
A	Array	16	real	2		<ast.Declaration object at 0x14b57f3c73d0>
c	Array	16	real	1		<ast.Declaration object at 0x14b57f3c73d0>
x_opt	Array	16	real	1		<ast.Declaration object at 0x14b57f3c73d0>
i	Scalar	4	integer			<ast.Declaration object at 0x14b57f3c72d0>
j	Scalar	4	integer			<ast.Declaration object at 0x14b57f3c72d0>

Scope : <i>EqualityForm</i> - Subroutine						
Id	type	precision	Dtype	ndim	Attributes	ref
A_eq	Array	16	real	2		<ast.Declaration object at 0x14b57f3b6490>
b_eq	Array	16	real	1		<ast.Declaration object at 0x14b57f3b6490>

c_eq	Array	16	real	1		<ast.Declaration object at 0x14b57f3b6490>
x0	Array	16	real	1		<ast.Declaration object at 0x14b57f3b6490>
x_eq	Array	16	real	1		<ast.Declaration object at 0x14b57f3b6490>
eps	Scalar	16	real			<ast.Declaration object at 0x14b57f3b6490>
A_can	Array	16	real	2		<ast.Declaration object at 0x14b57f3b6490>
c_can	Array	16	real	1		<ast.Declaration object at 0x14b57f3b6490>
x_can	Array	16	real	1		<ast.Declaration object at 0x14b57f3b6490>
A_can1	Array	16	real	2		<ast.Declaration object at 0x14b57f3b6490>
c_can1	Array	16	real	1		<ast.Declaration object at 0x14b57f3b6490>
x_can1	Array	16	real	1		<ast.Declaration object at 0x14b57f3b6490>
A	Array	16	real	2		<ast.Declaration object at 0x14b57f3b6490>
b	Array	16	real	1		<ast.Declaration object at 0x14b57f3b6490>
c	Array	16	real	1		<ast.Declaration object at 0x14b57f3b6490>
x01	Array	16	real	1		<ast.Declaration object at 0x14b57f3b6490>
x_opt1	Array	16	real	1		<ast.Declaration object at 0x14b57f3b6490>
lambda	Scalar	16	real			<ast.Declaration object at 0x14b57f3b6490>
i	Scalar	4	integer			<ast.Declaration object at 0x14b57f3b63d0>

j	Scalar	4	integer			<ast.Declaration object at 0x14b57f3b63d0>
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Scope : <i>StandardForm</i> - Subroutine						
Id	type	precision	Dtype	ndim	Attributes	ref
A	Array	16	real	2		<ast.Declaration object at 0x14b57f3aff90>
b	Array	16	real	1		<ast.Declaration object at 0x14b57f3aff90>
c	Array	16	real	1		<ast.Declaration object at 0x14b57f3aff90>
x_opt	Array	16	real	1		<ast.Declaration object at 0x14b57f3aff90>
A_can	Array	16	real	2		<ast.Declaration object at 0x14b57f3aff90>
c_can	Array	16	real	1		<ast.Declaration object at 0x14b57f3aff90>
x_can	Array	16	real	1		<ast.Declaration object at 0x14b57f3aff90>
x	Array	16	real	1		<ast.Declaration object at 0x14b57f3aff90>
a0	Array	16	real	1		<ast.Declaration object at 0x14b57f3aff90>
i	Scalar	4	integer			<ast.Declaration object at 0x14b57f3afc90>
j	Scalar	4	integer			<ast.Declaration object at 0x14b57f3afc90>

Scope : <i>LeastNegativeForm</i> - Subroutine						
Id	type	precision	Dtype	ndim	Attributes	ref
A_ln	Array	16	real	2		<ast.Declaration object at 0x14b57f3a7d50>
b_ln	Array	16	real	1		<ast.Declaration object at 0x14b57f3a7d50>
c_ln	Array	16	real	1		<ast.Declaration object at 0x14b57f3a7d50>
y0	Array	16	real	1		<ast.Declaration object at 0x14b57f3a7d50>
x0	Array	16	real	1		<ast.Declaration object at 0x14b57f3a7d50>
x_ln	Array	16	real	1		<ast.Declaration object at 0x14b57f3a7d50>
eps	Scalar	16	real			<ast.Declaration object at 0x14b57f3a7d50>
e	Array	16	real	1		<ast.Declaration object at 0x14b57f3a7d50>
A_aug	Array	16	real	2		<ast.Declaration object at 0x14b57f3a7d50>
b_aug	Array	16	real	1		<ast.Declaration object at 0x14b57f3a7d50>
c_aug	Array	16	real	1		<ast.Declaration object at 0x14b57f3a7d50>
x0_aug	Array	16	real	1		<ast.Declaration object at 0x14b57f3a7d50>
x_aug	Array	16	real	1		<ast.Declaration object at 0x14b57f3a7d50>
A_augcan	Array	16	real	2		<ast.Declaration object at 0x14b57f3a7d50>
c_augcan	Array	16	real	1		<ast.Declaration object at 0x14b57f3a7d50>
x_augcan	Array	16	real	1		<ast.Declaration object at 0x14b57f3a7d50>

A_can	Array	16	real	2		<ast.Declaration object at 0x14b57f3a7d50>
c_can	Array	16	real	1		<ast.Declaration object at 0x14b57f3a7d50>
x_can	Array	16	real	1		<ast.Declaration object at 0x14b57f3a7d50>
i	Scalar	4	integer			<ast.Declaration object at 0x14b57f3a0950>
j	Scalar	4	integer			<ast.Declaration object at 0x14b57f3a0950>
opt	Scalar	4	integer			<ast.Declaration object at 0x14b57f3a0950>
greater	Scalar	4	integer			<ast.Declaration object at 0x14b57f3a0950>
num	Scalar	4	integer			<ast.Declaration object at 0x14b57f3a0950>
feas	Scalar	4	integer			<ast.Declaration object at 0x14b57f3a0950>
fail	Scalar	4	integer			<ast.Declaration object at 0x14b57f3a0950>
ini_feas	Scalar	4	integer			<ast.Declaration object at 0x14b57f3a0950>

Scope : <i>Algorithm</i> - Module						
Id	type	precision	Dtype	ndim	Attributes	ref
ProjectiveMethod	Function				result(x_can)	<ast.Function object at 0x14b57f3b4f50>

Scope : <i>ProjectiveMethod</i> - Function						
Id	type	precision	Dtype	ndim	Attributes	ref
A	Array	16	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f3a0c50>
c	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f3a0c50>
x_can	Array	16	real	1		<ast.Declaration object at 0x14b57f3b4150>
x_p	Array	16	real	1		<ast.Declaration object at 0x14b57f3b4a10>
x	Array	16	real	1		<ast.Declaration object at 0x14b57f3b4a10>
f_p	Scalar	16	real			<ast.Declaration object at 0x14b57f3b4a10>
f	Scalar	16	real			<ast.Declaration object at 0x14b57f3b4a10>
eps	Scalar	16	real			<ast.Declaration object at 0x14b57f3b4a10>
x0_aug	Array	16	real	1		<ast.Declaration object at 0x14b57f3b4a10>
x_aug	Array	16	real	1		<ast.Declaration object at 0x14b57f3b4a10>
n	Scalar	4	integer			<ast.Declaration object at 0x14b57f3b4e50>
iter	Scalar	4	integer			<ast.Declaration object at 0x14b57f3b4e50>
iter_limit	Scalar	4	integer			<ast.Declaration object at 0x14b57f3b4e50>
i	Scalar	4	integer			<ast.Declaration object at 0x14b57f3b4e50>
j	Scalar	4	integer			<ast.Declaration object at 0x14b57f3b4e50>
iter_num	Scalar	4	integer			<ast.Declaration object at 0x14b57f3b4e50>

iterz	Scalar	4	integer			<ast.Declaration object at 0x14b57f3b4e50>
Optimize	Subroutine					<ast.Subroutine object at 0x14b57f3cc850>

Scope : <i>Optimize</i> - Subroutine						
Id	type	precision	Dtype	ndim	Attributes	ref
x_p	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f3cc3d0>
x	Array	16	real	1		<ast.Declaration object at 0x14b57f3cc550>
e	Array	16	real	1		<ast.Declaration object at 0x14b57f3ba650>
Ad	Array	16	real	2		<ast.Declaration object at 0x14b57f3ba650>
B	Array	16	real	2		<ast.Declaration object at 0x14b57f3ba650>
v	Array	16	real	1		<ast.Declaration object at 0x14b57f3ba650>
c_p	Array	16	real	1		<ast.Declaration object at 0x14b57f3ba650>
c_unit	Array	16	real	1		<ast.Declaration object at 0x14b57f3ba650>
x0	Array	16	real	1		<ast.Declaration object at 0x14b57f3ba650>
alpha	Scalar	16	real			<ast.Declaration object at 0x14b57f3ba650>

Scope : <i>Statistics - Module</i>						
Id	type	precision	Dtype	ndim	Attributes	ref
arithmetic_vector	Function				result(amean)	<ast.Function object at 0x14b57f3ba8d0>
arithmetic_matrix	Function				result(amean)	<ast.Function object at 0x14b57f3e3110>
geometric_vector	Function				result(gmean)	<ast.Function object at 0x14b57f3e3890>
geometric_matrix	Function				result(gmean)	<ast.Function object at 0x14b57f3ea150>
harmonic_vector	Function				result(hmean)	<ast.Function object at 0x14b57f3eaa50>
harmonic_matrix	Function				result(hmean)	<ast.Function object at 0x14b57f3e6b90>

Scope - <i>arithmetic_vector</i>						
Id	type	precision	Dtype	ndim	Attributes	ref
vector	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f3ba910>
amean	Scalar	16	real			<ast.Declaration object at 0x14b57f3baad0>

Scope - <i>arithmetic_matrix</i>						
Id	type	precision	Dtype	ndim	Attributes	ref
Matrix	Array	16	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f3e3150>

amean	Scalar	16	real			<ast.Declaration object at 0x14b57f3e33d0>
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Scope - <i>geometric_vector</i>						
Id	type	precision	Dtype	ndim	Attributes	ref
vector	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f3e3a10>
gmean	Scalar	16	real			<ast.Declaration object at 0x14b57f3e3b90>

Scope - <i>geometric_matrix</i>						
Id	type	precision	Dtype	ndim	Attributes	ref
Matrix	Array	16	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f3ea190>
gmean	Scalar	16	real			<ast.Declaration object at 0x14b57f3ea410>

Scope - <i>harmonic_vector</i>						
Id	type	precision	Dtype	ndim	Attributes	ref
vector	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f3ea990>

hmean	Scalar	16	real			<ast.Declaration object at 0x14b57f3eac10>
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Scope - <i>harmonic_matrix</i>						
Id	type	precision	Dtype	ndim	Attributes	ref
Matrix	Array	16	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f3e6b50>
hmean	Scalar	16	real			<ast.Declaration object at 0x14b57f3e69d0>

Scope : <i>HistogramPlot</i> - Module						
Id	type	precision	Dtype	ndim	Attributes	ref
histogram_vector	Subroutine					<ast.Subroutine object at 0x14b57f40e710>
histogram_matrix	Subroutine					<ast.Subroutine object at 0x14b57f40eb10>
Plot	Subroutine					<ast.Subroutine object at 0x14b57f4061d0>

Scope - <i>histogram_vector</i>						
Id	type	precision	Dtype	ndim	Attributes	ref

vector	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f3e6190>
i	Scalar	8	integer			<ast.Declaration object at 0x14b57f3e6d90>
s	Scalar	8	integer			<ast.Declaration object at 0x14b57f3e6d90>
n	Scalar	8	integer			<ast.Declaration object at 0x14b57f3e6d90>
limit	Scalar	16	real			<ast.Declaration object at 0x14b57f40e250>
interval	Scalar	16	real			<ast.Declaration object at 0x14b57f40e250>
lowerbound	Scalar	6	character			<ast.Declaration object at 0x14b57f40e450>
upperbound	Scalar	6	character			<ast.Declaration object at 0x14b57f40e450>
filename	Scalar	16	character			<ast.Declaration object at 0x14b57f40e590>
group	Array	16	real	2	['allocatable']	<ast.Declaration object at 0x14b57f40e7d0>
p	Array	8	integer	1	['allocatable']	<ast.Declaration object at 0x14b57f40e9d0>

Scope - <i>histogram_matrix</i>						
Id	type	precision	Dtype	ndim	Attributes	ref
Matrix	Array	16	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f40ecd0>

Scope : <i>Plot</i> - Subroutine						
Id	type	precision	Dtype	ndim	Attributes	ref
Y	Array	16	real	1		<ast.Declaration object at 0x14b57f40ee90>
Z	Array	16	real	1		<ast.Declaration object at 0x14b57f406190>
X	Array	16	real	1		<ast.Declaration object at 0x14b57f406310>
i	Scalar	4	integer			<ast.Declaration object at 0x14b57f406350>

Scope : <i>Postprocessor</i> - Module						
Id	type	precision	Dtype	ndim	Attributes	ref
Stats_vector	Subroutine					<ast.Subroutine object at 0x14b57f406d50>
Stats_matrix	Subroutine					<ast.Subroutine object at 0x14b57f3f4590>
EIGENRECORD	Subroutine					<ast.Subroutine object at 0x14b57f3f4b90>
EigenAnalysis	Subroutine					<ast.Subroutine object at 0x14b57f3f1210>

Scope - <i>Stats_vector</i>						
Id	type	precision	Dtype	ndim	Attributes	ref
vector	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f406c10>

M	Scalar	16	real		['intent(out)']	<ast.Declaration object at 0x14b57f406e90>
StdDev	Scalar	16	real		['intent(out)']	<ast.Declaration object at 0x14b57f406e90>
s	Scalar	16	real			<ast.Declaration object at 0x14b57f406fd0>
ssq	Scalar	16	real			<ast.Declaration object at 0x14b57f406fd0>
i	Scalar	4	integer			<ast.Declaration object at 0x14b57f3f4250>
n	Scalar	4	integer			<ast.Declaration object at 0x14b57f3f4250>

Scope - <i>Stats_matrix</i>						
Id	type	precision	Dtype	ndim	Attributes	ref
Matrix	Array	16	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f3f45d0>
M	Scalar	16	real		['intent(out)']	<ast.Declaration object at 0x14b57f3f4890>
StdDev	Scalar	16	real		['intent(out)']	<ast.Declaration object at 0x14b57f3f4890>

Scope : <i>EIGENRECORD</i> - Subroutine						
Id	type	precision	Dtype	ndim	Attributes	ref
M	Array	16	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f3f4c10>

E	Array	16	real	1		<ast.Declaration object at 0x14b57f3f4d50>
COND	Scalar	16	real			<ast.Declaration object at 0x14b57f3f4d50>
i	Scalar	4	integer			<ast.Declaration object at 0x14b57f3f4b50>

Scope : <i>EigenAnalysis</i> - Subroutine						
Id	type	precision	Dtype	ndim	Attributes	ref
E	Array	16	real	2		<ast.Declaration object at 0x14b57f3f1510>
COND	Array	16	real	1		<ast.Declaration object at 0x14b57f3f1510>
IOstatus	Scalar	4	integer			<ast.Declaration object at 0x14b57f3f1750>
i	Scalar	4	integer			<ast.Declaration object at 0x14b57f3f1750>
n	Scalar	4	integer			<ast.Declaration object at 0x14b57f3f1750>

Scope : <i>LPTools</i> - Module						
Id	type	precision	Dtype	ndim	Attributes	ref
Potential	Function				result(f)	<ast.Function object at 0x14b57f3f1f90>
zero_ratio	Function				result(alpha)	<ast.Function object at 0x14b57f3e1550>

min_ratio	Function				result(alpha)	<ast.Function object at 0x14b57f40a1d0>
Dual	Subroutine					<ast.Subroutine object at 0x14b57f40a810>
StdToCan	Subroutine					<ast.Subroutine object at 0x14b57f3ff5d0>
Transform	Subroutine					<ast.Subroutine object at 0x14b57f3ffc50>
InvTransform	Function				result(x)	<ast.Function object at 0x14b57f3fca10>

Scope : <i>Potential</i> - Function						
Id	type	precision	Dtype	ndim	Attributes	ref
c	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f3f1dd0>
x	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f3f1dd0>
f	Scalar	16	real			<ast.Declaration object at 0x14b57f3f1d90>

Scope - <i>zero_ratio</i>						
Id	type	precision	Dtype	ndim	Attributes	ref
n	Scalar	4	integer		['intent(in)']	<ast.Declaration object at 0x14b57f3e12d0>
c_unit	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f3e1410>

alpha	Scalar	16	real			<ast.Declaration object at 0x14b57f3e1690>
a	Scalar	16	real			<ast.Declaration object at 0x14b57f3e1690>
beta	Scalar	16	real			<ast.Declaration object at 0x14b57f3e13d0>
idx	Scalar	4	integer			<ast.Declaration object at 0x14b57f3e1910>

Scope - <i>min_ratio</i>						
Id	type	precision	Dtype	ndim	Attributes	ref
n	Scalar	4	integer		['intent(in)']	<ast.Declaration object at 0x14b57f3e1d10>
c_unit	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f3e1e50>
alpha	Scalar	16	real			<ast.Declaration object at 0x14b57f3e1fd0>
beta	Scalar	16	real			<ast.Declaration object at 0x14b57f3e1f90>
idx	Scalar	4	integer			<ast.Declaration object at 0x14b57f40a350>

Scope : <i>Dual</i> - Subroutine						
Id	type	precision	Dtype	ndim	Attributes	ref
A	Array	16	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f40ab50>

b	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f40ab50>
c	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f40ab50>
A_dual	Array	16	real	2	['intent(out)']	<ast.Declaration object at 0x14b57f40ad50>
b_dual	Array	16	real	1	['intent(out)']	<ast.Declaration object at 0x14b57f40ad50>
c_dual	Array	16	real	1	['intent(out)']	<ast.Declaration object at 0x14b57f40ad50>

Scope : <i>StdToCan</i> - Subroutine						
Id	type	precision	Dtype	ndim	Attributes	ref
A_std	Array	16	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f409990>
b_std	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f409990>
c_std	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f409990>
A_can	Array	16	real	2	['intent(out)']	<ast.Declaration object at 0x14b57f409fd0>
c_can	Array	16	real	1	['intent(out)']	<ast.Declaration object at 0x14b57f409fd0>
a0	Array	16	real	1	['intent(out)']	<ast.Declaration object at 0x14b57f409fd0>
A	Array	16	real	2		<ast.Declaration object at 0x14b57f402850>
b	Array	16	real	1		<ast.Declaration object at 0x14b57f402850>
c	Array	16	real	1		<ast.Declaration object at 0x14b57f402850>

x0	Array	16	real	1		<ast.Declaration object at 0x14b57f3ff4d0>
y0	Array	16	real	1		<ast.Declaration object at 0x14b57f3ff4d0>
u0	Array	16	real	1		<ast.Declaration object at 0x14b57f3ff4d0>
v0	Array	16	real	1		<ast.Declaration object at 0x14b57f3ff4d0>
lambda_0	Scalar	16	real			<ast.Declaration object at 0x14b57f3ff4d0>
m	Scalar	4	integer			<ast.Declaration object at 0x14b57f3ff610>
n	Scalar	4	integer			<ast.Declaration object at 0x14b57f3ff610>
i	Scalar	4	integer			<ast.Declaration object at 0x14b57f3ff610>
j	Scalar	4	integer			<ast.Declaration object at 0x14b57f3ff610>

Scope : <i>Transform</i> - Subroutine						
Id	type	precision	Dtype	ndim	Attributes	ref
A	Array	16	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f3ffe10>
b	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f3ffe10>
c	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f3ffe10>
a0	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f3ffe10>
A_can	Array	16	real	2	['intent(out)']	<ast.Declaration object at 0x14b57f3fff90>

c_can	Array	16	real	1	['intent(out)']	<ast.Declaration object at 0x14b57f3ff90>
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Scope : <i>InvTransform</i> - Function						
Id	type	precision	Dtype	ndim	Attributes	ref
x_can	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f3fc8d0>
x0	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f3fc8d0>
x	Array	16	real	1		<ast.Declaration object at 0x14b57f3fc850>

Scope : <i>LAOperators</i> - Module						
Id	type	precision	Dtype	ndim	Attributes	ref
DIAG	Function				result(D)	<ast.Function object at 0x14b57f3fa310>
ONES	Function				result(D)	<ast.Function object at 0x14b57f3fa5d0>
COLMULT	Function				result(cA)	<ast.Function object at 0x14b57f1e4050>
ADD	Function				result(a)	<ast.Function object at 0x14b57f1e47d0>
DOT	Function				result(bTc)	<ast.Function object at 0x14b57f1e4a10>
ENORM	Function				result(n)	<ast.Function object at 0x14b57f1e5450>

UPPER	Function				result(U)	<ast.Function object at 0x14b57f1e56d0>
LOWER	Function				result(L)	<ast.Function object at 0x14b57f1e5e10>
CholeskyDecomp	Function				result(L)	<ast.Function object at 0x14b57f1e7a50>
SPDLUD	Subroutine					<ast.Subroutine object at 0x14b57f1e9810>
ForSubstitution	Function				result(x)	<ast.Function object at 0x14b57f1ea0d0>
BackSubstitution	Function				result(x)	<ast.Function object at 0x14b57f1ea5d0>
GEMV	Function				result(Mv)	<ast.Function object at 0x14b57f1eacd0>
GEMM	Function				result(AB)	<ast.Function object at 0x14b57f1ec490>
TRANS	Function				result(AT)	<ast.Function object at 0x14b57f1ecd50>

Scope : <i>DIAG</i> - Function						
Id	type	precision	Dtype	ndim	Attributes	ref
x	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f3fcd0>
D	Array	16	real	2		<ast.Declaration object at 0x14b57f3fcf10>
i	Scalar	4	integer			<ast.Declaration object at 0x14b57f3fa090>

Scope : <i>ONES</i> - Function						
Id	type	precision	Dtype	ndim	Attributes	ref
n	Scalar	4	integer		['intent(in)']	<ast.Declaration object at 0x14b57f3fa950>
D	Array	16	real	2		<ast.Declaration object at 0x14b57f3faa50>
e	Array	16	real	1		<ast.Declaration object at 0x14b57f3fac10>

Scope : <i>COLMULT</i> - Function						
Id	type	precision	Dtype	ndim	Attributes	ref
c	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f3faf50>
A	Array	16	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f3faf50>
cA	Array	16	real	2		<ast.Declaration object at 0x14b57f1e40d0>
i	Scalar	4	integer			<ast.Declaration object at 0x14b57f1e42d0>

Scope : <i>ADD</i> - Function						
Id	type	precision	Dtype	ndim	Attributes	ref
v	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f1e4850>
a	Scalar	16	real			<ast.Declaration object at 0x14b57f1e4910>

i	Scalar	4	integer			<ast.Declaration object at 0x14b57f1e4a50>
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Scope : <i>DOT</i> - Function						
Id	type	precision	Dtype	ndim	Attributes	ref
b	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f1e4f50>
c	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f1e4f50>
bTc	Scalar	16	real			<ast.Declaration object at 0x14b57f1e4f90>

Scope : <i>ENORM</i> - Function						
Id	type	precision	Dtype	ndim	Attributes	ref
u	Array	16	real	1		<ast.Declaration object at 0x14b57f1e52d0>
n	Scalar	16	real			<ast.Declaration object at 0x14b57f1e53d0>

Scope : <i>UPPER</i> - Function						
Id	type	precision	Dtype	ndim	Attributes	ref

A	Array	16	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f1e5750>
U	Array	16	real	2		<ast.Declaration object at 0x14b57f1e58d0>
i	Scalar	4	integer			<ast.Declaration object at 0x14b57f1e5910>

Scope : <i>LOWER</i> - Function						
Id	type	precision	Dtype	ndim	Attributes	ref
A	Array	16	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f1e5ed0>
L	Array	16	real	2		<ast.Declaration object at 0x14b57f1e5fd0>
i	Scalar	4	integer			<ast.Declaration object at 0x14b57f1e70d0>

Scope : <i>CholeskyDecomp</i> - Function						
Id	type	precision	Dtype	ndim	Attributes	ref
A	Array	16	real	2		<ast.Declaration object at 0x14b57f1e75d0>
L	Array	16	real	2		<ast.Declaration object at 0x14b57f1e7790>
i	Scalar	4	integer			<ast.Declaration object at 0x14b57f1e77d0>
summ	Scalar	16	real			<ast.Declaration object at 0x14b57f1e7b50>

Scope : <i>SPDLUD</i> - Subroutine						
Id	type	precision	Dtype	ndim	Attributes	ref
A	Array	16	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f1e7f50>
L	Array	16	real	2	['intent(out)']	<ast.Declaration object at 0x14b57f1e93d0>
U	Array	16	real	2	['intent(out)']	<ast.Declaration object at 0x14b57f1e93d0>
q	Scalar	4	integer			<ast.Declaration object at 0x14b57f1e97d0>
n	Scalar	4	integer			<ast.Declaration object at 0x14b57f1e97d0>
i	Scalar	4	integer			<ast.Declaration object at 0x14b57f1e97d0>
j	Scalar	4	integer			<ast.Declaration object at 0x14b57f1e97d0>
D	Array	16	real	1		<ast.Declaration object at 0x14b57f1e9ad0>
Dia	Array	16	real	2		<ast.Declaration object at 0x14b57f1e9ad0>

Scope : <i>ForSubstitution</i> - Function						
Id	type	precision	Dtype	ndim	Attributes	ref
L	Array	16	real	2		<ast.Declaration object at 0x14b57f1e9f10>
b	Array	16	real	1		<ast.Declaration object at 0x14b57f1e9f10>

x	Array	16	real	1		<ast.Declaration object at 0x14b57f1ea110>
i	Scalar	4	integer			<ast.Declaration object at 0x14b57f1ea050>

Scope : <i>BackSubstitution</i> - Function						
Id	type	precision	Dtype	ndim	Attributes	ref
U	Array	16	real	2		<ast.Declaration object at 0x14b57f1ea150>
b	Array	16	real	1		<ast.Declaration object at 0x14b57f1ea150>
x	Array	16	real	1		<ast.Declaration object at 0x14b57f1ea790>
i	Scalar	4	integer			<ast.Declaration object at 0x14b57f1ea750>

Scope : <i>GEMV</i> - Function						
Id	type	precision	Dtype	ndim	Attributes	ref
M	Array	16	real	2		<ast.Declaration object at 0x14b57f1ea910>
v	Array	16	real	1		<ast.Declaration object at 0x14b57f1ea910>
Mv	Array	16	real	1		<ast.Declaration object at 0x14b57f1eae50>
i	Scalar	4	integer			<ast.Declaration object at 0x14b57f1eae10>

Scope : <i>GEMM</i> - Function						
Id	type	precision	Dtype	ndim	Attributes	ref
A	Array	16	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f1ec210>
B	Array	16	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f1ec210>
AB	Array	16	real	2		<ast.Declaration object at 0x14b57f1ec650>
i	Scalar	4	integer			<ast.Declaration object at 0x14b57f1eca10>
j	Scalar	4	integer			<ast.Declaration object at 0x14b57f1eca10>

Scope : <i>TRANS</i> - Function						
Id	type	precision	Dtype	ndim	Attributes	ref
A	Array	16	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f1ecdd0>
AT	Array	16	real	2		<ast.Declaration object at 0x14b57f1ecf90>
i	Scalar	4	integer			<ast.Declaration object at 0x14b57f1ed290>
j	Scalar	4	integer			<ast.Declaration object at 0x14b57f1ed290>

Scope : <i>LAPACKOperators</i> - Module						
Id	type	precision	Dtype	ndim	Attributes	ref
DOT	Function				result(uTv)	<ast.Function object at 0x14b57f1eda10>
ENORM	Function				result(NormV)	<ast.Function object at 0x14b57f1ede10>
DPOINV	Function				result(AINV)	<ast.Function object at 0x14b57f1ef290>
EIGEN	Function				result(E)	<ast.Function object at 0x14b57f1f2690>
LAGEMV	Function				result(AX)	<ast.Function object at 0x14b57f1f3490>
LAGEMM	Function				result(C)	<ast.Function object at 0x14b57f1f5110>

Scope : <i>DOT</i> - Function						
Id	type	precision	Dtype	ndim	Attributes	ref
SX	Array	8	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f1ed910>
SY	Array	8	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f1ed910>
uTv	Scalar	8	real			<ast.Declaration object at 0x14b57f1ed810>
N	Scalar	8	integer			<ast.Declaration object at 0x14b57f1edc10>
INCX	Scalar	8	integer			<ast.Declaration object at 0x14b57f1edc10>
INCY	Scalar	8	integer			<ast.Declaration object at 0x14b57f1edc10>

Scope : <i>ENORM</i> - Function						
Id	type	precision	Dtype	ndim	Attributes	ref
X	Array	8	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f1eded0>
NormV	Scalar	8	real			<ast.Declaration object at 0x14b57f1edf10>
N	Scalar	8	integer			<ast.Declaration object at 0x14b57f1ef190>
INCX	Scalar	8	integer			<ast.Declaration object at 0x14b57f1ef190>

Scope : <i>DPOINV</i> - Function						
Id	type	precision	Dtype	ndim	Attributes	ref
A	Array	8	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f1ef4d0>
AINV	Array	8	real	2		<ast.Declaration object at 0x14b57f1ef450>
UPLO	Scalar		character			<ast.Declaration object at 0x14b57f1ef610>
N	Scalar	4	integer			<ast.Declaration object at 0x14b57f1efe10>
LDA	Scalar	4	integer			<ast.Declaration object at 0x14b57f1efe10>
IPIV	Array	4	integer	1		<ast.Declaration object at 0x14b57f1efe10>
INFO	Scalar	4	integer			<ast.Declaration object at 0x14b57f1efe10>
i	Scalar	4	integer			<ast.Declaration object at 0x14b57f1efe10>
j	Scalar	4	integer			<ast.Declaration object at 0x14b57f1efe10>

Scope : <i>EIGEN</i> - Function						
Id	type	precision	Dtype	ndim	Attributes	ref
A	Array	8	real	2		<ast.Declaration object at 0x14b57f1ed390>
E	Array	8	real	1		<ast.Declaration object at 0x14b57f1f2250>
JOBZ	Scalar		character			<ast.Declaration object at 0x14b57f1f2310>
N	Scalar	4	integer			<ast.Declaration object at 0x14b57f1f2750>
LDA	Scalar	4	integer			<ast.Declaration object at 0x14b57f1f2750>
LWORK	Scalar	4	integer			<ast.Declaration object at 0x14b57f1f2750>
INFO	Scalar	4	integer			<ast.Declaration object at 0x14b57f1f2750>
WORK	Array	8	real	1	['allocatable']	<ast.Declaration object at 0x14b57f1f2890>

Scope : <i>LAGEMV</i> - Function						
Id	type	precision	Dtype	ndim	Attributes	ref
A	Array	8	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f1f2510>
X	Array	8	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f1f2510>
AX	Array	8	real	1		<ast.Declaration object at 0x14b57f1f2c50>

TRANS	Scalar		character			<ast.Declaration object at 0x14b57f1f2e90>
M	Scalar	8	integer			<ast.Declaration object at 0x14b57f1f3550>
N	Scalar	8	integer			<ast.Declaration object at 0x14b57f1f3550>
LDA	Scalar	8	integer			<ast.Declaration object at 0x14b57f1f3550>
INCX	Scalar	8	integer			<ast.Declaration object at 0x14b57f1f3550>
INCY	Scalar	8	integer			<ast.Declaration object at 0x14b57f1f3550>
ALPHA	Scalar	8	real			<ast.Declaration object at 0x14b57f1f3750>
BETA	Scalar	8	real			<ast.Declaration object at 0x14b57f1f3750>

Scope : <i>LAGEMM</i> - Function						
Id	type	precision	Dtype	ndim	Attributes	ref
A	Array	8	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f1f3950>
B	Array	8	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f1f3950>
C	Array	8	real	2		<ast.Declaration object at 0x14b57f1f3c90>
TRANSA	Scalar		character			<ast.Declaration object at 0x14b57f1f3e50>
M	Scalar	8	integer			<ast.Declaration object at 0x14b57f1f5410>
N	Scalar	8	integer			<ast.Declaration object at 0x14b57f1f5410>

K	Scalar	8	integer			<ast.Declaration object at 0x14b57f1f5410>
LDA	Scalar	8	integer			<ast.Declaration object at 0x14b57f1f5410>
LDB	Scalar	8	integer			<ast.Declaration object at 0x14b57f1f5410>
LDC	Scalar	8	integer			<ast.Declaration object at 0x14b57f1f5410>
ALPHA	Scalar	8	real			<ast.Declaration object at 0x14b57f1f5650>
BETA	Scalar	8	real			<ast.Declaration object at 0x14b57f1f5650>

Scope : <i>Augment</i> - Module						
Id	type	precision	Dtype	ndim	Attributes	ref
HAugment_vv	Function				result(ab)	<ast.Function object at 0x14b57f1f5d10>
HAugment_Mv	Function				result(Ab)	<ast.Function object at 0x14b57f1f7c50>
HAugment_vM	Function				result(aB)	<ast.Function object at 0x14b57f1faa10>
HAugment_MM	Function				result(AB)	<ast.Function object at 0x14b57f1fe310>
VAugment_ss	Function				result(ab)	<ast.Function object at 0x14b57f200210>
VAugment_sv	Function				result(sv)	<ast.Function object at 0x14b57f200b50>
VAugment_vs	Function				result(vs)	<ast.Function object at 0x14b57f2035d0>
VAugment_vv	Function				result(ab)	<ast.Function object at 0x14b57f206150>

VAugment_Mv	Function				result(Ab_T)	<ast.Function object at 0x14b57f2091d0>
VAugment_vM	Function				result(a_TB)	<ast.Function object at 0x14b57f209ed0>
VAugment_MM	Function				result(AB)	<ast.Function object at 0x14b57f20de50>

Scope - <i>HAugment_vv</i>						
Id	type	precision	Dtype	ndim	Attributes	ref
a	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f1f5c50>
b	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f1f5c50>
ab	Array	16	real	2		<ast.Declaration object at 0x14b57f1f5bd0>

Scope - <i>HAugment_Mv</i>						
Id	type	precision	Dtype	ndim	Attributes	ref
A	Array	16	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f1f70d0>
b	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f1f70d0>
Ab	Array	16	real	2		<ast.Declaration object at 0x14b57f1f76d0>

Scope - <i>HAugment_vM</i>						
Id	type	precision	Dtype	ndim	Attributes	ref
a	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f1fa410>
B	Array	16	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f1fa410>
aB	Array	16	real	2		<ast.Declaration object at 0x14b57f1fa390>

Scope - <i>HAugment_MM</i>						
Id	type	precision	Dtype	ndim	Attributes	ref
A	Array	16	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f1fa810>
B	Array	16	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f1fa810>
AB	Array	16	real	2		<ast.Declaration object at 0x14b57f1fad50>

Scope - <i>VAugment_ss</i>						
Id	type	precision	Dtype	ndim	Attributes	ref
a	Scalar	16	real		['intent(in)']	<ast.Declaration object at 0x14b57f1fef10>
b	Scalar	16	real		['intent(in)']	<ast.Declaration object at 0x14b57f1fef10>
ab	Array	16	real	1		<ast.Declaration object at 0x14b57f2000d0>

Scope - <i>VAugment_sv</i>						
Id	type	precision	Dtype	ndim	Attributes	ref
s	Scalar	16	real		['intent(in)']	<ast.Declaration object at 0x14b57f200750>
v	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f200750>
sv	Array	16	real	1		<ast.Declaration object at 0x14b57f200850>

Scope - <i>VAugment_vs</i>						
Id	type	precision	Dtype	ndim	Attributes	ref
v	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f203250>
s	Scalar	16	real		['intent(in)']	<ast.Declaration object at 0x14b57f203250>
vs	Array	16	real	1		<ast.Declaration object at 0x14b57f203050>

Scope - <i>VAugment_vv</i>						
Id	type	precision	Dtype	ndim	Attributes	ref
a	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f203d10>

b	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f203d10>
ab	Array	16	real	1		<ast.Declaration object at 0x14b57f203c90>

Scope - <i>VAugment_Mv</i>						
Id	type	precision	Dtype	ndim	Attributes	ref
A	Array	16	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f206790>
b_T	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f206790>
Ab_T	Array	16	real	2		<ast.Declaration object at 0x14b57f206ad0>

Scope - <i>VAugment_vM</i>						
Id	type	precision	Dtype	ndim	Attributes	ref
a_T	Array	16	real	1	['intent(in)']	<ast.Declaration object at 0x14b57f209990>
B	Array	16	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f209990>
a_TB	Array	16	real	2		<ast.Declaration object at 0x14b57f209910>

Scope - <i>VAugment_MM</i>						
Id	type	precision	Dtype	ndim	Attributes	ref
A	Array	16	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f20d090>
B	Array	16	real	2	['intent(in)']	<ast.Declaration object at 0x14b57f20d090>
AB	Array	16	real	2		<ast.Declaration object at 0x14b57f20d750>

Scope : <i>GeoGebra</i> - Module						
Id	type	precision	Dtype	ndim	Attributes	ref
GGBInit	Subroutine					<ast.Subroutine object at 0x14b57f20f5d0>
GGBPlot	Subroutine					<ast.Subroutine object at 0x14b57f20de10>
GGBPlotSystem	Subroutine					<ast.Subroutine object at 0x14b57f213410>
GGBPlotPoint	Subroutine					<ast.Subroutine object at 0x14b57f2138d0>
GGBPlotVector	Subroutine					<ast.Subroutine object at 0x14b57f216610>
GGBPlotPlane	Subroutine					<ast.Subroutine object at 0x14b57f216c90>
GGBLabel	Subroutine					<ast.Subroutine object at 0x14b57f216e10>
GGBCommand	Subroutine					<ast.Subroutine object at 0x14b57f218150>

Scope : <i>GGBInit</i> - Subroutine						
Id	type	precision	Dtype	ndim	Attributes	ref
X	Array	16	real	1		<ast.Declaration object at 0x14b57f20fb50>
Y	Array	16	real	1		<ast.Declaration object at 0x14b57f20fb50>
Z	Array	16	real	1		<ast.Declaration object at 0x14b57f20fb50>
i	Scalar	4	integer			<ast.Declaration object at 0x14b57f20f410>
j	Scalar	4	integer			<ast.Declaration object at 0x14b57f20f410>

Scope : <i>GGBPlot</i> - Subroutine						
Id	type	precision	Dtype	ndim	Attributes	ref

Scope : <i>GGBPlotSystem</i> - Subroutine						
Id	type	precision	Dtype	ndim	Attributes	ref
A	Array	16	real	2		<ast.Declaration object at 0x14b57f20ff10>
c	Array	16	real	1		<ast.Declaration object at 0x14b57f20ff10>
b	Array	16	real	1		<ast.Declaration object at 0x14b57f213190>
i	Scalar	4	integer			<ast.Declaration object at 0x14b57f213150>

str	Array	10	character	1		<ast.Declaration object at 0x14b57f213450>
vstr	Scalar	100	character			<ast.Declaration object at 0x14b57f213050>

Scope : <i>GGBPlotPoint</i> - Subroutine						
Id	type	precision	Dtype	ndim	Attributes	ref
v	Array	16	real	1		<ast.Declaration object at 0x14b57f2139d0>
label	Scalar	10	character			<ast.Declaration object at 0x14b57f213750>
color	Scalar	6	character			<ast.Declaration object at 0x14b57f213cd0>
str	Array	10	character	1		<ast.Declaration object at 0x14b57f213e10>
vstr	Scalar	100	character			<ast.Declaration object at 0x14b57f213f10>

Scope : <i>GGBPlotVector</i> - Subroutine						
Id	type	precision	Dtype	ndim	Attributes	ref
v	Array	16	real	1		<ast.Declaration object at 0x14b57f2162d0>
str	Array	10	character	1		<ast.Declaration object at 0x14b57f216150>
vstr	Scalar	100	character			<ast.Declaration object at 0x14b57f216490>

Scope : <i>GGBPlotPlane</i> - Subroutine						
Id	type	precision	Dtype	ndim	Attributes	ref
c	Array	16	real	1		<ast.Declaration object at 0x14b57f216a90>
b	Scalar	16	real			<ast.Declaration object at 0x14b57f216a90>
str	Array	10	character	1		<ast.Declaration object at 0x14b57f216ad0>
vstr	Scalar	50	character			<ast.Declaration object at 0x14b57f216990>

Scope : <i>GGBLabel</i> - Subroutine						
Id	type	precision	Dtype	ndim	Attributes	ref
label	Scalar	10	character			<ast.Declaration object at 0x14b57f216f50>

Scope : <i>GGBCommand</i> - Subroutine						
Id	type	precision	Dtype	ndim	Attributes	ref
str	Scalar	10	character		['intent(in)']	<ast.Declaration object at 0x14b57f218210>