Goto	Kernel	State	
goto(124, ST)	{[F -> ST.F, .]}	114	
goto(124,])	{[F ->]., .]}	115	
goto(124, nat)	{[ST -> nat.VD, nat/case/itr/var_name/]]}	42	
goto(124, case)	{[ST -> case.C, nat/case/itr/var_name/]]}	43	
goto(124, itr)	{[ST -> itr.I, nat/case/itr/var_name/]]}	44	
goto(124, var_name)	{[ST -> var_name.VA, nat/case/itr/var_name/]]}	45	
goto(125, .)	{[I -> N times [RP] .., nat/case/itr/var_name/]]}	127	{[I -> N times [RP] .., nat/case/itr/var_name/]]}
goto(126, .)	{[C -> BE [T other [F .., nat/case/itr/var_name/]]}	128	{[C -> BE [T other [F .., nat/case/itr/var_name/]]}

LR table

State	ACTION																											GOTO																				
	BEGIN	END	nat	case	itr	var_name	.	=	[	other	(	)	>	<	==	!=	<=	>=	]	times	+	*	/	-	%	int	$	S'	S	SL	ST	VD	VA	C	BE	O	T	F	I	RP	ME	SUM	MUL	DIV	SUB	MOD	FAC	N
0	s2																												1																			
1																											acc																					
2		s5	s6	s7	s8	s9																								3	4																	
3																											r_1																					
4		s5	s6	s7	s8	s9																								10	4																	
5																											r_3																					
6						s12																										11																
7										s15																								13	14													
8						s19																				s18													16									17
9								s21																									20															
10																											r_2																					
11		r_4	r_4	r_4	r_4	r_4																																										
12							s22																																									
13		r_5	r_5	r_5	r_5	r_5																																										
14									s23																																							
15						s26																				s25																						24
16		r_6	r_6	r_6	r_6	r_6																																										
17																				s27																												
18																				r_{38}																												
19																				r_{39}																												
20		r_7	r_7	r_7	r_7	r_7																																										
21						s38					s35															s37															28	29	30	31	32	33	34	36
22		r_8	r_8	r_8	r_8	r_8																																										
23			s42	s43	s44	s45													s41												40						39											
24													s47	s48	s49	s50	s51	s52																		46												
25													r_{38}	r_{38}	r_{38}	r_{38}	r_{38}	r_{38}																														
26													r_{39}	r_{39}	r_{39}	r_{39}	r_{39}	r_{39}																														
27									s53																																							
28							s54																																									
29							r_{25}																																									
30							r_{27}														s55																											
31							r_{29}														r_{29}	s56																										
32							r_{31}														r_{31}	r_{31}	s57																									
33							r_{33}														r_{33}	r_{33}	r_{33}	s58																								
34							r_{35}														r_{35}	r_{35}	r_{35}	r_{35}	s59																							
35						s70					s67															s69															60	61	62	63	64	65	66	68

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LR table

State	ACTION																										GOTO																				
	BEGIN	END	nat	case	itr	var_name	.	=	[	other	(	)	>	<	==	!=	<=	>=	]	times	+	*	/	-	%	int	$	S'	S	SL	ST	VD	VA	C	BE	O	T	F	I	RP	ME	SUM	MUL	DIV	SUB	MOD	FAC	N
36							r_{37}														r_{37}	r_{37}	r_{37}	r_{37}	r_{37}																							
37							r_{38}														r_{38}	r_{38}	r_{38}	r_{38}	r_{38}																							
38							r_{39}														r_{39}	r_{39}	r_{39}	r_{39}	r_{39}																							
39										s71																																						
40			s42	s43	s44	s45													s41												40						72											
41										r_{19}																																						
42						s74																										73																
43											s15																							75	76													
44						s19																				s18													77									78
45								s80																									79															
46						s83																				s82																						81
47						r_{12}																				r_{12}																						
48						r_{13}																				r_{13}																						
49						r_{14}																				r_{14}																						
50						r_{15}																				r_{15}																						
51						r_{16}																				r_{16}																						
52						r_{17}																				r_{17}																						
53			s42	s43	s44	s45													s86												85									84								
54		r_{9}	r_{9}	r_{9}	r_{9}	r_{9}																																										
55						s38					s35															s37																87	30	31	32	33	34	36
56						s38					s35															s37																	88	31	32	33	34	36
57						s38					s35															s37																		89	32	33	34	36
58						s38					s35															s37																			90	33	34	36
59						s38					s35															s37																				91	34	36
60												s92																																				
61												r_{25}																																				
62												r_{27}									s93																											
63												r_{29}									r_{29}	s94																										
64												r_{31}									r_{31}	r_{31}	s95																									
65												r_{33}									r_{33}	r_{33}	r_{33}	s96																								
66												r_{35}									r_{35}	r_{35}	r_{35}	r_{35}	s97																							
67						s70					s67															s69															98	61	62	63	64	65	66	68
68												r_{37}									r_{37}	r_{37}	r_{37}	r_{37}	r_{37}																							
69												r_{38}									r_{38}	r_{38}	r_{38}	r_{38}	r_{38}																							
70												r_{39}									r_{39}	r_{39}	r_{39}	r_{39}	r_{39}																							
71									s99																																							
72										r_{18}																																						
73			r_{4}	r_{4}	r_{4}	r_{4}													r_{4}																													
74							s100																																									
75			r_{5}	r_{5}	r_{5}	r_{5}													r_{5}																													
76									s101																																							
77			r_{6}	r_{6}	r_{6}	r_{6}													r_{6}																													
78																				s102																												
79			r_{7}	r_{7}	r_{7}	r_{7}													r_{7}																													
80						s38					s35															s37															103	29	30	31	32	33	34	36
81												s104																																				
82												r_{38}																																				
83												r_{39}																																				

LR table

State	ACTION																										GOTO																			
	BEGIN	END	nat	case	itr	var_name	.	=	[	other	(	)	>	<	==	!=	<=	>=	]	times	+	*	/	-	%	int	$	S'	S	SL	ST	VD	VA	C	BE	O	T	F	I	RP	ME	SUM	MUL	DIV	SUB	MOD	FAC	N
84																				s105																													
85			s42	s43	s44	s45													s86												85									106								
86																				r_{24}																													
87							r_{26}																																									
88							r_{28}														r_{28}																											
89							r_{30}														r_{30}	r_{30}																										
90							r_{32}														r_{32}	r_{32}	r_{32}																									
91							r_{34}														r_{34}	r_{34}	r_{34}	r_{34}																								
92							r_{36}														r_{36}	r_{36}	r_{36}	r_{36}	r_{36}																							
93						s70					s67															s69																107	62	63	64	65	66	68
94						s70					s67															s69																	108	63	64	65	66	68
95						s70					s67															s69																		109	64	65	66	68
96						s70					s67															s69																			110	65	66	68
97						s70					s67															s69																				111	66	68
98												s112																																				
99			s42	s43	s44	s45													s115												114							113										
100			r_{8}	r_{8}	r_{8}	r_{8}													r_{8}																													
101			s42	s43	s44	s45													s41												40						116											
102									s117																																							
103							s118																																									
104									r_{11}																																							
105							s119																																									
106																				r_{23}																													
107												r_{26}																																				
108												r_{28}									r_{28}																											
109												r_{30}									r_{30}	r_{30}																										
110												r_{32}									r_{32}	r_{32}	r_{32}																									
111												r_{34}									r_{34}	r_{34}	r_{34}	r_{34}																								
112												r_{36}									r_{36}	r_{36}	r_{36}	r_{36}	r_{36}																							
113							s120																																									
114			s42	s43	s44	s45													s115												114							121										
115							r_{21}																																									
116										s122																																						
117			s42	s43	s44	s45													s86												85									123								
118			r_{9}	r_{9}	r_{9}	r_{9}													r_{9}																													
119		r_{22}	r_{22}	r_{22}	r_{22}	r_{22}																																										
120		r_{10}	r_{10}	r_{10}	r_{10}	r_{10}																																										
121							r_{20}																																									
122									s124																																							
123																				s125																													
124			s42	s43	s44	s45													s115												114							126										
125							s127																																									
126							s128																																									
127			r_{22}	r_{22}	r_{22}	r_{22}													r_{22}																													
128			r_{10}	r_{10}	r_{10}	r_{10}													r_{10}																													