

Up Help

```

0  0 base
1  2 [ $\ast \bowtie \ast$ ]
2  1 “ $\ast$ ”
3  0
4  2  $\ast$  then  $\ast$ 
5  3  $\ast[\ast]\ast$ 
6  2 Preassociative  $\ast; \ast$ 
7  2 Postassociative  $\ast; \ast$ 
8  2  $[\ast], \ast$ 
9  1 priority  $\ast$  end
10 1
*
11 0  $\ast$ 
12 1  $(\ast)^t$ 
13 2 string( $\ast$ ) +  $\ast$ 
14 2 string( $\ast$ ) ++  $\ast$ 
15 1 bracket  $\ast$  end bracket
16 1 big bracket  $\ast$  end bracket
17 1 math  $\ast$  end math
18 1 flush left  $[\ast]$ 
19 0 x
20 0 y
21 0 z
22 3  $[\ast \xrightarrow{\ast} \ast]$ 
23 0 pyk
24 0 tex
25 0 name
26 0 prio
27 0 T

```

```

28 3 if(*,*,*)
29 3 [*  $\overset{*}{\Rightarrow}$  *]
30 0 val
31 0 claim
32 1 *
33 1 !*
34 1 ”*
35 1 #*
36 1 $*
37 1 %0*
38 1 &*
39 1 ’*
40 1 (*
41 1 )*
42 1 **
43 1 +*
44 1 ,*
45 1 -*
46 1 .*
47 1 /*
48 1 0*
49 1 1*
50 1 2*
51 1 3*
52 1 4*
53 1 5*
54 1 6*
55 1 7*
56 1 8*
57 1 9*
58 1 :*
59 1 ;*
60 1 <*
61 1 ==*

```

62 1 >*
 63 1 ?*
 64 1 @*
 65 1 A*
 66 1 B*
 67 1 C*
 68 1 D*
 69 1 E*
 70 1 F*
 71 1 G*
 72 1 H*
 73 1 I*
 74 1 J*
 75 1 K*
 76 1 L*
 77 1 M*
 78 1 N*
 79 1 O*
 80 1 P*
 81 1 Q*
 82 1 R*
 83 1 S*
 84 1 T*
 85 1 U*
 86 1 V*
 87 1 W*
 88 1 X*
 89 1 Y*
 90 1 Z*
 91 1 [*
 92 1 *
 93 1]*
 94 1 ^*
 95 1 _*

96	1	'*
97	1	a*
98	1	b*
99	1	c*
100	1	d*
101	1	e*
102	1	f*
103	1	g*
104	1	h*
105	1	i*
106	1	j*
107	1	k*
108	1	l*
109	1	m*
110	1	n*
111	1	o*
112	1	p*
113	1	q*
114	1	r*
115	1	s*
116	1	t*
117	1	u*
118	1	v*
119	1	w*
120	1	x*
121	1	y*
122	1	z*
123	1	{*
124	1	*
125	1	*}
126	1	~*
127	0	$\perp$
128	1	f(*)
129	1	(*) ^I

130 0 F
131 0 0
132 0 1
133 0 2
134 0 3
135 0 4
136 0 5
137 0 6
138 0 7
139 0 8
140 0 9
141 0 0
142 0 1
143 0 2
144 0 3
145 0 4
146 0 5
147 0 6
148 0 7
149 0 8
150 0 9
151 0 a
152 0 b
153 0 c
154 0 d
155 0 e
156 0 f
157 0 g
158 0 h
159 0 i
160 0 j
161 0 k
162 0 l
163 0 m

```

164 0 n
165 0 o
166 0 p
167 0 q
168 0 r
169 0 s
170 0 t
171 0 u
172 0 v
173 0 w
174 1  $(*)^M$ 
175 3 If(*,*,*)
176 2 array{*} * end array
177 0 l
178 0 c
179 0 r
180 0 empty
181 3  $\langle * \mid * := * \rangle$ 
182 1  $\mathcal{M}(*)$ 
183 1  $\tilde{\mathcal{U}}(*)$ 
184 1  $\mathcal{U}(*)$ 
185 1  $\mathcal{U}^M(*)$ 
186 2 apply(*,*)
187 2 apply1(*,*)
188 1 identifier(*)
189 2 identifier1(*,*)
190 2 array-plus(*,*)
191 3 array-remove(*,*,*)
192 4 array-put(*,*,*,*)
193 5 array-add(*,*,*,*,*)
194 2 bit(*,*)
195 2 bit1(*,*)
196 0 rack
197 0 "vector"

```

198 0 "bibliography"
199 0 "dictionary"
200 0 "body"
201 0 "codex"
202 0 "expansion"
203 0 "code"
204 0 "cache"
205 0 "diagnose"
206 0 "pyk"
207 0 "tex"
208 0 "texname"
209 0 "value"
210 0 "message"
211 0 "macro"
212 0 "definition"
213 0 "unpack"
214 0 "claim"
215 0 "priority"
216 0 "lambda"
217 0 "apply"
218 0 "true"
219 0 "if"
220 0 "quote"
221 0 "proclaim"
222 0 "define"
223 0 "introduce"
224 0 "hide"
225 0 "pre"
226 0 "post"
227 3 $\mathcal{E}(*, *, *)$
228 5 $\mathcal{E}_2(*, *, *, *, *)$
229 4 $\mathcal{E}_3(*, *, *, *, *)$
230 4 $\mathcal{E}_4(*, *, *, *, *)$
231 3 **lookup**(*, *, *)

232 4 **abstract**(*,*,*,*)
 233 1 $\lceil *$
 234 3 $\mathcal{M}(*,*,*)$
 235 4 $\mathcal{M}_2(*,*,*,*)$
 236 3 $\mathcal{M}^*(*,*,*)$
 237 0 macro
 238 0 s_0
 239 2 **zip**(*,*)
 240 3 **assoc**₁(*,*,*)
 241 1 $(*)^{\mathbf{P}}$
 242 0 self
 243 2 $[* \doteqdot *]$
 244 2 $[* \dot{=} *]$
 245 2 $[* \leq *]$
 246 2 $[* \stackrel{\text{pyk}}{=} *]$
 247 2 $[* \stackrel{\text{tex}}{=} *]$
 248 2 $[* \stackrel{\text{name}}{=} *]$
 249 1 **Priority table**[*]
 250 0 $\tilde{\mathcal{M}}_1$
 251 1 $\tilde{\mathcal{M}}_2(*)$
 252 1 $\tilde{\mathcal{M}}_3(*)$
 253 4 $\tilde{\mathcal{M}}_4(*,*,*,*)$
 254 3 $\tilde{\mathcal{M}}(*,*,*)$
 255 3 $\tilde{\mathcal{Q}}(*,*,*)$
 256 3 $\tilde{\mathcal{Q}}_2(*,*,*)$
 257 4 $\tilde{\mathcal{Q}}_3(*,*,*,*)$
 258 3 $\tilde{\mathcal{Q}}^*(*,*,*)$
 259 1 $(*)$
 260 2 **aspect**(*,*)
 261 3 **aspect**(*,*,*)
 262 1 $\langle * \rangle$
 263 1 **tuple**₁(*)
 264 1 **tuple**₂(*)

265 2 $\text{let}_2(*, *)$
 266 2 $\text{let}_1(*, *)$
 267 2 $[* \stackrel{\text{claim}}{=} *]$
 268 0 checker
 269 2 **check** $(*, *)$
 270 3 **check** $_2(*, *, *)$
 271 3 **check** $_3(*, *, *)$
 272 2 **check** $^*(*, *)$
 273 3 **check** $_2^*(*, *, *)$
 274 1 $[*]$
 275 1 $[*]^-$
 276 1 $[*]^\circ$
 277 0 msg
 278 2 $[* \stackrel{\text{msg}}{=} *]$
 279 0 $\langle \text{stmt} \rangle$
 280 0 stmt
 281 2 $[* \stackrel{\text{stmt}}{=} *]$
 282 0 $\text{HeadNil}'$
 283 0 $\text{HeadPair}'$
 284 0 $\text{Transitivity}'$
 285 0 $\perp\!\!\!\perp$
 286 0 Contra'
 287 0 T'_E
 288 0 L_1
 289 1 $\underline{*}$
 290 0 $\mathcal{A}$
 291 0 $\mathcal{B}$
 292 0 $\mathcal{C}$
 293 0 $\mathcal{D}$
 294 0 $\mathcal{E}$
 295 0 $\mathcal{F}$
 296 0 $\mathcal{G}$
 297 0 $\mathcal{H}$

298 0 $\mathcal{I}$
 299 0 $\mathcal{J}$
 300 0 $\mathcal{K}$
 301 0 $\mathcal{L}$
 302 0 $\mathcal{M}$
 303 0 $\mathcal{N}$
 304 0 $\mathcal{O}$
 305 0 $\mathcal{P}$
 306 0 $\mathcal{Q}$
 307 0 $\mathcal{R}$
 308 0 $\mathcal{S}$
 309 0 $\mathcal{T}$
 310 0 $\mathcal{U}$
 311 0 $\mathcal{V}$
 312 0 $\mathcal{W}$
 313 0 $\mathcal{X}$
 314 0 $\mathcal{Y}$
 315 0 $\mathcal{Z}$
 316 3 $\langle * \mid * := * \rangle$
 317 3 $\langle ** \mid * := * \rangle$
 318 0 $\emptyset$
 319 0 Remainder
 320 1 $(*)^\mathbf{v}$
 321 2 $\text{error}(*, *)$
 322 2 $\text{error}_2(*, *)$
 323 3 $\text{proof}(*, *, *)$
 324 2 $\text{proof}_2(*, *)$
 325 2 $\mathcal{S}(*, *)$
 326 2 $\mathcal{S}^{\mathbf{I}}(*, *)$
 327 2 $\mathcal{S}^{\triangleright}(*, *)$
 328 3 $\mathcal{S}_1^{\triangleright}(*, *, *)$
 329 2 $\mathcal{S}^{\mathbf{E}}(*, *)$
 330 3 $\mathcal{S}_1^{\mathbf{E}}(*, *, *)$
 331 2 $\mathcal{S}^+(*, *)$

332 3 $\mathcal{S}_1^+(*, *, *)$
333 2 $\mathcal{S}^-(*, *)$
334 3 $\mathcal{S}_1^-(*, *, *)$
335 2 $\mathcal{S}^*(*, *)$
336 3 $\mathcal{S}_1^*(*, *, *)$
337 4 $\mathcal{S}_2^*(*, *, *, *)$
338 2 $\mathcal{S}^{\textcircled{a}}(*, *)$
339 3 $\mathcal{S}_1^{\textcircled{a}}(*, *, *)$
340 2 $\mathcal{S}^\vdash(*, *)$
341 4 $\mathcal{S}_1^\vdash(*, *, *, *)$
342 2 $\mathcal{S}^\sharp(*, *)$
343 4 $\mathcal{S}_1^\sharp(*, *, *, *)$
344 2 $\mathcal{S}^{\text{i.e.}}(*, *)$
345 4 $\mathcal{S}_1^{\text{i.e.}}(*, *, *, *)$
346 5 $\mathcal{S}_2^{\text{i.e.}}(*, *, *, *, *)$
347 2 $\mathcal{S}^\forall(*, *)$
348 4 $\mathcal{S}_1^\forall(*, *, *, *)$
349 2 $\mathcal{S}^:(*, *)$
350 3 $\mathcal{S}_1^:(*, *, *)$
351 4 $\mathcal{S}_2^:(*, *, *, *)$
352 1 $\mathcal{T}(*)$
353 3 $\text{claims}(*, *, *)$
354 3 $\text{claims}_2(*, *, *)$
355 0 <proof>
356 0 proof
357 2 $[\textbf{Lemma } *: *]$
358 2 $[\textbf{Proof of } *: *]$
359 3 $[* \textbf{ lemma } *: *]$
360 3 $[* \textbf{ antilemma } *: *]$
361 3 $[* \textbf{ rule } *: *]$
362 3 $[* \textbf{ antirule } *: *]$
363 0 verifier
364 1 $\mathcal{V}_1(*)$
365 2 $\mathcal{V}_2(*, *)$

366 4 $\mathcal{V}_3(*, *, *, *)$
367 2 $\mathcal{V}_4(*, *)$
368 4 $\mathcal{V}_5(*, *, *, *)$
369 4 $\mathcal{V}_6(*, *, *, *)$
370 4 $\mathcal{V}_7(*, *, *, *)$
371 2 $\text{Cut}(*, *)$
372 1 $\text{Head}_{\oplus}(*)$
373 1 $\text{Tail}_{\oplus}(*)$
374 2 $\text{rule}_1(*, *)$
375 2 $\text{rule}(*, *)$
376 0 Rule tactic
377 2 $\text{Plus}(*, *)$
378 1 [**Theory** *]
379 2 $\text{theory}_2(*, *)$
380 2 $\text{theory}_3(*, *)$
381 3 $\text{theory}_4(*, *, *)$
382 0 $\text{HeadNil}''$
383 0 $\text{HeadPair}''$
384 0 $\text{Transitivity}''$
385 0 Contra''
386 0 HeadNil
387 0 HeadPair
388 0 Transitivity
389 0 Contra
390 0 T_E
391 0 ragged right
392 0 ragged right expansion
393 3 $\text{parm}(*, *, *)$
394 3 $\text{parm}^*(*, *, *)$
395 2 $\text{inst}(*, *)$
396 2 $\text{inst}^*(*, *)$
397 3 $\text{occur}(*, *, *)$
398 3 $\text{occur}^*(*, *, *)$
399 3 $\text{unify}(* = *, *)$

400 3 unify^{*}(* = *, *)
401 3 unify₂(* = *, *)
402 0 L_a
403 0 L_b
404 0 L_c
405 0 L_d
406 0 L_e
407 0 L_f
408 0 L_g
409 0 L_h
410 0 L_i
411 0 L_j
412 0 L_k
413 0 L_l
414 0 L_m
415 0 L_n
416 0 L_o
417 0 L_p
418 0 L_q
419 0 L_r
420 0 L_s
421 0 L_t
422 0 L_u
423 0 L_v
424 0 L_w
425 0 L_x
426 0 L_y
427 0 L_z
428 0 L_A
429 0 L_B
430 0 L_C
431 0 L_D
432 0 L_E
433 0 L_F

434 0 L_G
 435 0 L_H
 436 0 L_I
 437 0 L_J
 438 0 L_K
 439 0 L_L
 440 0 L_M
 441 0 L_N
 442 0 L_O
 443 0 L_P
 444 0 L_Q
 445 0 L_R
 446 0 L_S
 447 0 L_T
 448 0 L_U
 449 0 L_V
 450 0 L_W
 451 0 L_X
 452 0 L_Y
 453 0 L_Z
 454 0 $L_?$
 455 0 Reflexivity
 456 0 Reflexivity₁
 457 0 Commutativity
 458 0 Commutativity₁
 459 0 <tactic>
 460 0 tactic
 461 2 $[* \stackrel{\text{tactic}}{=} *]$
 462 3 $\mathcal{P}(*, *, *)$
 463 3 $\mathcal{P}^*(*, *, *)$
 464 0 p_0
 465 2 conclude₁(*, *)
 466 3 conclude₂(*, *, *)
 467 4 conclude₃(*, *, *, *)

468 2 $*_{\{*\}}$
 469 1 $*'$
 470 2 $*[*]$
 471 3 $*[*\rightarrow*]$
 472 3 $*[*\Rightarrow*]$
 473 1 newline *
 474 1 macro newline *
 475 1 $*0$
 476 1 $*1$
 477 0 0b
 478 2 $*\text{-color}(*)$
 479 2 $*\text{-color}^*(*)$
 480 2 $*'*$
 481 2 $*'*$
 482 1 $*^H$
 483 1 $*^T$
 484 1 $*^U$
 485 1 $*^h$
 486 1 $*^t$
 487 1 $*^s$
 488 1 $*^c$
 489 1 $*^d$
 490 1 $*^a$
 491 1 $*^C$
 492 1 $*^M$
 493 1 $*^B$
 494 1 $*^r$
 495 1 $*^i$
 496 1 $*^d$
 497 1 $*^R$
 498 1 $*^0$
 499 1 $*^1$
 500 1 $*^2$
 501 1 $*^3$

502 $1 *^4$
 503 $1 *^5$
 504 $1 *^6$
 505 $1 *^7$
 506 $1 *^8$
 507 $1 *^9$
 508 $1 *^E$
 509 $1 *^{\mathcal{V}}$
 510 $1 *^C$
 511 $1 *^{C^*}$
 512 $2 * \cdot *$
 513 $2 * \cdot_0 *$
 514 $2 * + *$
 515 $2 * +_0 *$
 516 $2 * +_1 *$
 517 $2 * - *$
 518 $2 * -_0 *$
 519 $2 * -_1 *$
 520 $2 * \cup \{*\}$
 521 $2 * \cup *$
 522 $2 * \setminus \{*\}$
 523 $2 * \dot{\cdot} *$
 524 $2 * \underline{\dot{\cdot}} *$
 525 $2 * \dot{\vdash} *$
 526 $2 * \underline{+2*} *$
 527 $2 * :: *$
 528 $2 * +2* *$
 529 $2 *, *$
 530 $2 * \overset{B}{\approx} *$
 531 $2 * \overset{D}{\approx} *$
 532 $2 * \overset{C}{\approx} *$
 533 $2 * \overset{P}{\approx} *$
 534 $2 * \approx *$

535 $2 * = *$
 536 $2 * \xrightarrow{+} *$
 537 $2 * \stackrel{t}{=} *$
 538 $2 * \stackrel{t^*}{=} *$
 539 $2 * \stackrel{r}{=} *$
 540 $2 * \in_t *$
 541 $2 * \subseteq_T *$
 542 $2 * \stackrel{T}{=} *$
 543 $2 * \stackrel{s}{=} *$
 544 $2 * \text{ free in } *$
 545 $2 * \text{ free in }^* *$
 546 $3 * \text{ free for } * \text{ in } *$
 547 $3 * \text{ free for }^* * \text{ in } *$
 548 $2 * \in_c *$
 549 $2 * < *$
 550 $2 * <' *$
 551 $2 * \leq' *$
 552 $1 \neg *$
 553 $2 * \wedge *$
 554 $2 * \ddot{\wedge} *$
 555 $2 * \tilde{\wedge} *$
 556 $2 * \wedge_c *$
 557 $2 * \vee *$
 558 $2 * \parallel *$
 559 $2 * \ddot{\vee} *$
 560 $2 * \ddot{\Rightarrow} *$
 561 $2 * : *$
 562 $2 * ! *$
 563 $3 * \left\{ \begin{array}{l} * \\ * \end{array} \right.$
 564 $2 \lambda * . *$
 565 $1 \Lambda *$
 566 $3 \text{ if } * \text{ then } * \text{ else } *$
 567 $3 \text{ let } * = * \text{ in } *$

568 3 **let** * $\doteq$ * in *
 569 1 *^I
 570 1 *[▷]
 571 1 *^V
 572 1 *⁺
 573 1 *⁻
 574 1 *^{*}
 575 2 * @ *
 576 2 * ▷ *
 577 2 * ▷▷ *
 578 2 * ≫ *
 579 2 * ⊢ *
 580 2 * ⊢⊢ *
 581 2 * i.e. *
 582 2 ∀*: *
 583 2 * ⊕ *
 584 2 *; *
 585 2 * proves *
 586 3 * **proof of** * : *
 587 4 Line * : * ≫ *, *
 588 2 Last line * ≫ * □
 589 3 Line * : Premise ≫ *, *
 590 3 Line * : Side-condition ≫ *, *
 591 2 Arbitrary ≫ *, *
 592 3 Local ≫ * = *, *
 593 2 * & *
 594 2 * \ \ *

The pyk compiler, version 0.grue.20050502+ by Klaus Grue
GRD-2005-06-02.UTC:08:38:28.861822 = MJD-53523.TAI:08:39:00.861822 =
LGT-4624418340861822e-6