

[Up](#) [Help](#)

prop calc,  $T_P$ , A1, A2, A3,  $* \Rightarrow *$ ,

## prop calc

[prop calc  $\xrightarrow{\text{prio}}$

### Preassociative

[prop calc], [base], [bracket \* end bracket], [big bracket \* end bracket],  
 [math \* end math], [**flush left**  $[\ast]$ ], [x], [y], [z],  $[[\ast \bowtie \ast]]$ ,  $[[\ast \stackrel{*}{\rightarrow} \ast]]$ , [pyk], [tex],  
 [name], [prio],  $[\ast]$ , [T], [if  $(*, *, *)$ ],  $[[\ast \stackrel{*}{\Rightarrow} \ast]]$ , [val], [claim], [ $\perp$ ], [f( $\ast$ )],  $[(*)^I]$ , [F], [0],  
 [1], [2], [3], [4], [5], [6], [7], [8], [9], [0], [1], [2], [3], [4], [5], [6], [7], [8], [9], [a], [b], [c], [d],  
 [e], [f], [g], [h], [i], [j], [k], [l], [m], [n], [o], [p], [q], [r], [s], [t], [u], [v], [w],  $[(*)^M]$ , [If  $(*, *, *)$ ],  
 [array  $\{*\}$  \* end array], [l], [c], [r], [empty],  $[[\ast | \ast := \ast]]$ , [ $\mathcal{M}(\ast)$ ], [ $\mathcal{U}(\ast)$ ], [ $\mathcal{U}(\ast)$ ],  
 [ $\mathcal{U}^M(\ast)$ ], [**apply**  $(*, *)$ ], [**apply**  $_1(*, *)$ ], [identifier( $\ast$ )], [identifier $_1(*, *)$ ], [array-  
 plus  $(*, *)$ ], [array-remove  $(*, *, *)$ ], [array-put  $(*, *, *, *)$ ], [array-add  $(*, *, *, *, *)$ ],  
 [bit  $(*, *)$ ], [bit $_1(*, *)$ ], [rack], ["vector"], ["bibliography"], ["dictionary"],  
 ["body"], ["codex"], ["expansion"], ["code"], ["cache"], ["diagnose"], ["pyk"],  
 ["tex"], ["texname"], ["value"], ["message"], ["macro"], ["definition"],  
 ["unpack"], ["claim"], ["priority"], ["lambda"], ["apply"], ["true"], ["if"],  
 ["quote"], ["proclaim"], ["define"], ["introduce"], ["hide"], ["pre"], ["post"],  
 [ $\mathcal{E}(*, *, *)$ ], [ $\mathcal{E}_2(*, *, *, *, *)$ ], [ $\mathcal{E}_3(*, *, *, *)$ ], [ $\mathcal{E}_4(*, *, *, *)$ ], [**lookup**  $(*, *, *)$ ],  
 [**abstract**  $(*, *, *, *)$ ], [[\*]], [ $\mathcal{M}(*, *, *)$ ], [ $\mathcal{M}_2(*, *, *, *)$ ], [ $\mathcal{M}^*(*, *, *)$ ], [macro],  
 [so], [**zip**  $(*, *)$ ], [**assoc**  $_1(*, *, *)$ ], [ $(*)^P$ ], [self], [[\*  $\equiv \ast$ ]], [[\*  $\doteq \ast$ ]], [[\*  $\doteqdot \ast$ ]],  
 [[\*  $\stackrel{\text{pyk}}{\equiv} \ast$ ]], [[\*  $\stackrel{\text{tex}}{\equiv} \ast$ ]], [[\*  $\stackrel{\text{name}}{\equiv} \ast$ ]], [**Priority table**  $[\ast]$ ], [ $\tilde{\mathcal{M}}_1$ ], [ $\tilde{\mathcal{M}}_2(\ast)$ ], [ $\tilde{\mathcal{M}}_3(\ast)$ ],  
 [ $\tilde{\mathcal{M}}_4(*, *, *, *)$ ], [ $\tilde{\mathcal{M}}(*, *, *, *)$ ], [ $\tilde{\mathcal{Q}}(*, *, *)$ ], [ $\tilde{\mathcal{Q}}_2(*, *, *)$ ], [ $\tilde{\mathcal{Q}}_3(*, *, *, *)$ ], [ $\tilde{\mathcal{Q}}^*(*, *, *)$ ],  
 [[\*]], [**aspect**  $(*, *)$ ], [**aspect**  $(*, *, *)$ ], [[\*]], [**tuple**  $_1(\ast)$ ], [**tuple**  $_2(\ast)$ ], [let $_2(*, *)$ ],  
 [let $_1(*, *)$ ], [[\*  $\stackrel{\text{claim}}{\equiv} \ast$ ]], [checker], [**check**  $(*, *)$ ], [**check**  $_2(*, *, *)$ ], [**check**  $_3(*, *, *)$ ],  
 [**check**  $^*(*, *)$ ], [**check**  $_2^*(*, *, *)$ ], [[\*  $\cdot$ ]], [[\*  $-$ ]], [[\*  $\circ$ ]], [msg], [[\*  $\stackrel{\text{msg}}{\equiv} \ast$ ]], [<stmt>],  
 [stmt], [[\*  $\stackrel{\text{stmt}}{\equiv} \ast$ ]], [HeadNil'], [HeadPair'], [Transitivity'], [ $\perp$ ], [Contra'], [T'\_E],  
 [L<sub>1</sub>], [\*], [A], [B], [C], [D], [E], [F], [G], [H], [I], [J], [K], [L], [M], [N], [O], [P], [Q],  
 [R], [S], [T], [U], [V], [W], [X], [Y], [Z], [[\* | \* := \*]], [[\* \* | \* := \*]],  $\emptyset$ , [Remainder],  
 [(\*)<sup>V</sup>], [error  $(*, *)$ ], [error $_2(*, *)$ ], [proof  $(*, *, *)$ ], [proof $_2(*, *)$ ], [ $\mathcal{S}(*, *)$ ], [ $\mathcal{S}^I(*, *)$ ],  
 [ $\mathcal{S}^D(*, *)$ ], [ $\mathcal{S}_1^D(*, *, *)$ ], [ $\mathcal{S}^E(*, *)$ ], [ $\mathcal{S}_1^E(*, *, *)$ ], [ $\mathcal{S}^+(*, *)$ ], [ $\mathcal{S}_1^+(*, *, *)$ ],  
 [ $\mathcal{S}^-(*, *)$ ], [ $\mathcal{S}_1^-(*, *, *)$ ], [ $\mathcal{S}^*(*, *)$ ], [ $\mathcal{S}_1^*(*, *, *)$ ], [ $\mathcal{S}_2^*(*, *, *, *)$ ], [ $\mathcal{S}^@(*, *)$ ],  
 [ $\mathcal{S}_1^@(*, *, *)$ ], [ $\mathcal{S}^+(*, *)$ ], [ $\mathcal{S}_1^+(*, *, *, *)$ ], [ $\mathcal{S}^#(*, *)$ ], [ $\mathcal{S}_1^#(*, *, *, *)$ ], [ $\mathcal{S}^{i.e.}(*, *)$ ],  
 [ $\mathcal{S}_1^{i.e.}(*, *, *, *)$ ], [ $\mathcal{S}_2^{i.e.}(*, *, *, *, *)$ ], [ $\mathcal{S}^V(*, *)$ ], [ $\mathcal{S}_1^V(*, *, *, *)$ ], [ $\mathcal{S}^i(*, *)$ ],  
 [ $\mathcal{S}_1^i(*, *, *)$ ], [ $\mathcal{S}_2^i(*, *, *, *)$ ], [T(\*)], [claims  $(*, *, *)$ ], [claims $_2(*, *, *)$ ], [<proof>],  
 [proof], [[**Lemma** \*: $\ast$ ]], [[**Proof of** \*: $\ast$ ]], [[\* **lemma** \*: $\ast$ ]],

$[[\text{antilemma } *; *]], [[\text{rule } *; *]], [[\text{antirule } *; *]], [\text{verifier}], [\mathcal{V}_1(*)],$   
 $[\mathcal{V}_2(*, *)], [\mathcal{V}_3(*, *, *, *)], [\mathcal{V}_4(*, *)], [\mathcal{V}_5(*, *, *, *)], [\mathcal{V}_6(*, *, *, *)], [\mathcal{V}_7(*, *, *, *)],$   
 $[\text{Cut } (*, *)], [\text{Head}_{\oplus}(*)], [\text{Tail}_{\oplus}(*)], [\text{rule}_1(*, *)], [\text{rule}(*, *)], [\text{Rule tactic}],$   
 $[\text{Plus } (*, *)], [[\text{Theory } *]], [\text{theory}_2(*, *)], [\text{theory}_3(*, *)], [\text{theory}_4(*, *, *)],$   
 $[\text{HeadNil}''], [\text{HeadPair}''], [\text{Transitivity}''], [\text{Contra}''], [\text{HeadNil}], [\text{HeadPair}],$   
 $[\text{Transitivity}], [\text{Contra}], [\text{T}_E], [\text{ragged right}], [\text{ragged right expansion}],$   
 $[\text{parm } (*, *, *)], [\text{parm}^*(*, *, *)], [\text{inst } (*, *)], [\text{inst}^*(*, *)], [\text{occur } (*, *, *)],$   
 $[\text{occur}^*(*, *, *)], [\text{unify } (* = *, *)], [\text{unify}^*(* = *, *)], [\text{unify}_2(* = *, *)], [L_a], [L_b],$   
 $[L_c], [L_d], [L_e], [L_f], [L_g], [L_h], [L_i], [L_j], [L_k], [L_l], [L_m], [L_n], [L_o], [L_p], [L_q], [L_r],$   
 $[L_s], [L_t], [L_u], [L_v], [L_w], [L_x], [L_y], [L_z], [L_A], [L_B], [L_C], [L_D], [L_E], [L_F], [L_G],$   
 $[L_H], [L_I], [L_J], [L_K], [L_L], [L_M], [L_N], [L_O], [L_P], [L_Q], [L_R], [L_S], [L_T], [L_U], [L_V],$   
 $[L_W], [L_X], [L_Y], [L_Z], [L_?], [\text{Reflexivity}], [\text{Reflexivity}_1], [\text{Commutativity}],$   
 $[\text{Commutativity}_1], <\text{tactic}>, [\text{tactic}], [[* \stackrel{\text{tactic}}{=} *]], [\mathcal{P}(*, *, *)], [\mathcal{P}^*(*, *, *)], [p_0],$   
 $[\text{conclude}_1(*, *)], [\text{conclude}_2(*, *, *)], [\text{conclude}_3(*, *, *, *)];$

## Preassociative

$[T_P], [A_1], [A_2], [A_3];$

## Preassociative

$[_{-}\{*\}], [*'], [*[*]], [*[* \rightarrow *]], [*[* \Rightarrow *]];$

## Preassociative

$[“ * ”], [], [(*)^t], [\text{string}(*) + *], [\text{string}(*) ++ *], [$   
 $*], [*], [*!], [*"], [*#], [*\$], [*%], [*&], [*?], [*(*), ()*], [***], [*+], [*], [*-], [*.*], [/*],$   
 $[0*], [1*], [2*], [3*], [4*], [5*], [6*], [7*], [8*], [9*], [*:], [*], [*<*], [*=], [*>*], [*?*],$   
 $[@*], [A*], [B*], [C*], [D*], [E*], [F*], [G*], [H*], [I*], [J*], [K*], [L*], [M*], [N*],$   
 $[O*], [P*], [Q*], [R*], [S*], [T*], [U*], [V*], [W*], [X*], [Y*], [Z*], [*], [*\*], [*], [*], [*],$   
 $[-*], [*], [*a], [*b], [*c], [*d], [*e], [*f], [*g], [*h], [*i], [*j], [*k], [*l], [*m], [*n], [*o],$   
 $[p*], [q*], [r*], [s*], [t*], [u*], [v*], [w*], [x*], [y*], [z*], [*], [*], [*], [*], [*],$   
 $[\text{Preassociative } *; *], [\text{Postassociative } *; *], [[*], *], [\text{priority } * \text{ end}],$   
 $[\text{newline } *], [\text{macro newline } *];$

## Preassociative

$[*0], [*1], [0b], [*\text{color}(*)], [*\text{color}^*(*)];$

## Preassociative

$[_{*'}*], [*' *];$

## Preassociative

$[*_H], [*_T], [*_U], [*_h], [*_t], [*_s], [*_c], [*_d], [*_a], [*_C], [*_M], [*_B], [*_r], [*_i], [*_d], [*_R], [*_0],$   
 $[*_1], [*_2], [*_3], [*_4], [*_5], [*_6], [*_7], [*_8], [*_9], [*_E], [*_V], [*_C], [*_C^*];$

## Preassociative

$[*_\cdot *], [*_\cdot 0 *];$

## Preassociative

$[* + *], [* +_0 *], [* +_1 *], [* - *], [* -_0 *], [* -_1 *];$

## Preassociative

$[* \cup \{*\}], [* \cup *], [* \setminus \{*\}];$

## Postassociative

$[* \cdot \cdot *], [* \cdot \cdot *], [* \cdot \cdot *], [* \underline{+} 2 *], [* \cdot : *], [* + 2 *];$

## Postassociative

$[*, *];$

**Preassociative**  
[ $\approx^B$  \*], [ $\approx^D$  \*], [ $\approx^C$  \*], [ $\approx^P$  \*], [ $\approx$  \*], [\* = \*], [\*  $\rightarrow$  \*], [\*  $\doteq$  \*], [\*  $\doteq^t$  \*], [\*  $\doteq^r$  \*],  
[\*  $\in_t$  \*], [\*  $\subseteq_T$  \*], [\*  $\overset{T}{=}$  \*], [\*  $\overset{s}{=}$  \*], [\* free in \*], [\* free in\* \*], [\* free for \* in \*],  
[\* free for\* \* in \*], [\*  $\in_c$  \*], [\* < \*], [\* < ' \*], [\*  $\leq'$  \*];

**Preassociative**

[ $\neg$ \*];

**Preassociative**

[\*  $\wedge$  \*], [\*  $\ddot{\wedge}$  \*], [\*  $\tilde{\wedge}$  \*], [\*  $\wedge_c$  \*];

**Preassociative**

[\*  $\vee$  \*], [\*  $\parallel$  \*], [\*  $\ddot{\vee}$  \*];

**Postassociative**

[\*  $\Rightarrow$  \*];

**Postassociative**

[\*  $\Rightarrow$  \*];

**Postassociative**

[\* : \*], [\*!\*];

**Preassociative**

[\* { \* } \*];

**Preassociative**

[ $\lambda$  \* .\*], [ $\Lambda$ \*], [if \* then \* else \*], [let \* = \* in \*], [let \*  $\doteq$  \* in \*];

**Preassociative**

[\*<sup>I</sup>], [\*<sup>></sup>], [\*<sup>V</sup>], [\*<sup>+</sup>], [\*<sup>-</sup>], [\*<sup>\*</sup>];

**Preassociative**

[\* @ \*], [\*  $\triangleright$  \*], [\*  $\triangleright$  \*], [\*  $\gg$  \*];

**Preassociative**

[\*  $\triangleright$  \*], [\*  $\triangleright\triangleright$  \*], [\*  $\gg$  \*];

**Postassociative**

[\*  $\vdash$  \*], [\*  $\Vdash$  \*], [\* i.e. \*];

**Preassociative**

[ $\forall$ \*: \*];

**Postassociative**

[\*  $\oplus$  \*];

**Postassociative**

[\*; \*];

**Preassociative**

[\* proves \*];

**Preassociative**

[\* proof of \* : \*], [Line \* : \*  $\gg$  \*; \*], [Last line \*  $\gg$  \*], [Line \* : Premise  $\gg$  \*; \*],  
[Line \* : Side-condition  $\gg$  \*; \*], [Arbitrary  $\gg$  \*; \*], [Local  $\gg$  \* = \*; \*];

**Postassociative**

[\* then \*], [\* [\* ]\*];

**Preassociative**

[\*&\*];

**Preassociative**

[\*\\*\\*];]

[prop calc  $\xrightarrow{\text{pyk}}$  “prop calc”]

T<sub>P</sub>

[ $T_P \xrightarrow{\text{stmt}} [\underline{[ [ [ b \Rightarrow c ] \Rightarrow d ] \Rightarrow [ [ b \Rightarrow c ] \Rightarrow [ b \Rightarrow d ] ] ]} \oplus [\underline{[ [ b \Rightarrow c ] \oplus [ [ [ \neg c ] \Rightarrow \neg b ] \Rightarrow [ [ [ \neg c ] \Rightarrow b ] \Rightarrow c ] ]]}]$

[ $T_P \xrightarrow{\text{tex}} "T_{\{-P\}}"$ ]

[ $T_P \xrightarrow{\text{pyk}}$  “prop theory”]

A1

[A1  $\xrightarrow{\text{proof}}$  Rule tactic]

[ $A1 \xrightarrow{\text{stmt}} T_P \vdash [\underline{b \Rightarrow [c \Rightarrow b]}]$ ]

[A1  $\xrightarrow{\text{tex}}$  “A1”]

[A1  $\xrightarrow{\text{pyk}}$  “axiom one”]

A2

[A2  $\xrightarrow{\text{proof}}$  Rule tactic]

[ $A2 \xrightarrow{\text{stmt}} T_P \vdash [\underline{[ [ [ b \Rightarrow c ] \Rightarrow d ] \Rightarrow [ [ b \Rightarrow c ] \Rightarrow [ b \Rightarrow d ] ]}]$ ]

[A2  $\xrightarrow{\text{tex}}$  “A2”]

[A2  $\xrightarrow{\text{pyk}}$  “axiom two”]

A3

[A3  $\xrightarrow{\text{proof}}$  Rule tactic]

[ $A3 \xrightarrow{\text{stmt}} T_P \vdash [\underline{[ [ [ \neg c ] \Rightarrow \neg b ] \Rightarrow [ [ [ \neg c ] \Rightarrow b ] \Rightarrow c ] }]$ ]

[A3  $\xrightarrow{\text{tex}}$  “A3”]

[A3  $\xrightarrow{\text{pyk}}$  “axiom three”]

$* \Rightarrow *$

$[b \Rightarrow c \xrightarrow{\text{val}} [\neg b] \vee c]$

$[b \Rightarrow c \xrightarrow{\text{tex}} "\#1. \backslash Rightarrow\{\} \#2."]$

$[x \Rightarrow y \xrightarrow{\text{pyk}} "* \text{ imply } *"]$

*The pyk compiler, version 0.grue.20050502 by Klaus Grue*

*GRD-2005-06-05.UTC:08:46:27.673984 = MJD-53526.TAI:08:46:59.673984 =*

*LGT-4624678019673984e-6*