Logiweb sequent calculus, Chores

Klaus Grue

30. juni 2006

Indhold

1 Test cases

2 Pyk definitions

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[$* \leq *$ $\overset{\text{pyk}}{\to}$ “" istq "”]
[$* \not< *$ $\overset{\text{pyk}}{\to}$ “" inst "”]
[$* > *$ $\overset{\text{pyk}}{\to}$ “" igt "”]
[$* \geq *$ $\overset{\text{pyk}}{\to}$ “" igtq "”]
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[$* \vee *$ $\overset{\text{pyk}}{\to}$ “" or1 "”]
[$\exists *\colon *$ $\overset{\text{pyk}}{\to}$ “exists " indeed "”]
[$* \mid *$ $\overset{\text{pyk}}{\to}$ “" divides "”]

[$*\ldots \overset{\text{pyk}}{\to}$ "" ldots"]
[opgave $\overset{\text{pyk}}{\to}$ "opgave"]

3 TEX definitions

[$\exists$x: y $\overset{\text{tex}}{\to}$ "
\exists #1.
\colon #2."]

[S10 $\overset{\text{tex}}{\to}$ "
S10"]

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Prop\ 3.2i"]

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Prop\ 3.11”]

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R”]

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Lem 1.11d”]

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Lem 1.11g”]

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Cor 1.10a”]

[Cor1.10b $\overset{\text{tex}}{\to}$ “
Cor 1.10b”]

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MT”]

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< #2.”]

[x ≤ y $\overset{\text{tex}}{\to}$ “#1.
\leq #2.”]

[x ≮ y $\overset{\text{tex}}{\to}$ “#1.
\not < #2.”]

[x > y $\overset{\text{tex}}{\to}$ “#1.
> #2.”]

[x ≥ y $\overset{\text{tex}}{\to}$ “#1.
\geq #2.”]

[x ≯ y $\overset{\text{tex}}{\to}$ “#1.
\not > #2.”]

[x ≠ y $\overset{\text{tex}}{\to}$ “#1.
\neq #2.”]

[x . . . $\overset{\text{tex}}{\to}$ “#1.
\ldots”]

[x ∧ y $\overset{\text{tex}}{\to}$ “#1.
\wedge #2.”]

[x ∨ y $\overset{\text{tex}}{\to}$ “#1.
\vee #2.”]

3.1 Variables

4 Numerals

$[\mathsf{x} \neq \mathsf{y} \overset{\text{macro}}{\to} \lambda\mathsf{t}.\lambda\mathsf{s}.\lambda\mathsf{c}.\tilde{\mathcal{M}}_4(\mathsf{t},\mathsf{s},\mathsf{c},\lceil[\mathsf{x} \neq \mathsf{y} \doteqdot \neg(\mathsf{x} = \mathsf{y})]\rceil)]$
$[\overline{0} \overset{\text{macro}}{\to} \lambda\mathsf{t}.\lambda\mathsf{s}.\lambda\mathsf{c}.\tilde{\mathcal{M}}_4(\mathsf{t},\mathsf{s},\mathsf{c},\lceil[\overline{0} \doteqdot 0]\rceil)]$ $[\overline{1} \overset{\text{macro}}{\to} \lambda\mathsf{t}.\lambda\mathsf{s}.\lambda\mathsf{c}.\tilde{\mathcal{M}}_4(\mathsf{t},\mathsf{s},\mathsf{c},\lceil[\overline{1} \doteqdot 0']\rceil)]$ $[\overline{2} \overset{\text{macro}}{\to} \lambda\mathsf{t}.\lambda\mathsf{s}.\lambda\mathsf{c}.\tilde{\mathcal{M}}_4(\mathsf{t},\mathsf{s},\mathsf{c},\lceil[\overline{2} \doteqdot 0'']\rceil)]$ $[\overline{3} \overset{\text{macro}}{\to} \lambda\mathsf{t}.\lambda\mathsf{s}.\lambda\mathsf{c}.\tilde{\mathcal{M}}_4(\mathsf{t},\mathsf{s},\mathsf{c},\lceil[\overline{3} \doteqdot 0''']\rceil)]$ $[\overline{4} \overset{\text{macro}}{\to} \lambda\mathsf{t}.\lambda\mathsf{s}.\lambda\mathsf{c}.\tilde{\mathcal{M}}_4(\mathsf{t},\mathsf{s},\mathsf{c},\lceil[\overline{4} \doteqdot 0'''']\rceil)]$ $[\overline{5} \overset{\text{macro}}{\to} \lambda\mathsf{t}.\lambda\mathsf{s}.\lambda\mathsf{c}.\tilde{\mathcal{M}}_4(\mathsf{t},\mathsf{s},\mathsf{c},\lceil[\overline{5} \doteqdot 0''''']\rceil)]$ $[\overline{6} \overset{\text{macro}}{\to} \lambda\mathsf{t}.\lambda\mathsf{s}.\lambda\mathsf{c}.\tilde{\mathcal{M}}_4(\mathsf{t},\mathsf{s},\mathsf{c},\lceil[\overline{6} \doteqdot 0'''''']\rceil)]$ $[\overline{7} \overset{\text{macro}}{\to} \lambda\mathsf{t}.\lambda\mathsf{s}.\lambda\mathsf{c}.\tilde{\mathcal{M}}_4(\mathsf{t},\mathsf{s},\mathsf{c},\lceil[\overline{7} \doteqdot 0'''''']\rceil)]$ $[\overline{8} \overset{\text{macro}}{\to} \lambda\mathsf{t}.\lambda\mathsf{s}.\lambda\mathsf{c}.\tilde{\mathcal{M}}_4(\mathsf{t},\mathsf{s},\mathsf{c},\lceil[\overline{8} \doteqdot 0''''''']\rceil)]$ $[\overline{9} \overset{\text{macro}}{\to} \lambda\mathsf{t}.\lambda\mathsf{s}.\lambda\mathsf{c}.\tilde{\mathcal{M}}_4(\mathsf{t},\mathsf{s},\mathsf{c},\lceil[\overline{9} 0''''''''']\rceil)]$
$[\overline{0} \overset{\text{tex}}{\to}$ “\overline{0}”] $[\overline{1} \overset{\text{tex}}{\to}$ “\overline{1}”] $[\overline{2} \overset{\text{tex}}{\to}$ “\overline{2}”] $[\overline{3} \overset{\text{tex}}{\to}$ “\overline{3}”] $[\overline{4} \overset{\text{tex}}{\to}$ “\overline{4}”] $[\overline{5} \overset{\text{tex}}{\to}$ “\overline{5}”] $[\overline{6} \overset{\text{tex}}{\to}$ “\overline{6}”] $[\overline{7} \overset{\text{tex}}{\to}$ “\overline{7}”] $[\overline{8} \overset{\text{tex}}{\to}$ “\overline{8}”] $[\overline{9} \overset{\text{tex}}{\to}$ “\overline{9}”] $[\overline{\mathsf{n}} \overset{\text{tex}}{\to}$ “\overline{n}”]

5 Priority table

[opgave $\overset{\text{prio}}{\to}$
Preassociative
[opgave], [base], [bracket $*$ end bracket], [big bracket $*$ end bracket], [\$ $*$ \$], [**flush left** $[*]$], [x], [y], [z], $[[* \bowtie *]]$, $[[* \overset{*}{\to} *]]$, [pyk], [tex], [name], [prio], $[*]$, $[\mathsf{T}]$, $[\text{if}(*,*,*)]$, $[[* \overset{*}{\Rightarrow} *]]$, [val], [claim], $[\bot]$, $[\text{f}(*)]$, $[(*)^{\text{I}}]$, $[\mathsf{F}]$, $[\underline{0}]$, $[\underline{1}]$, $[\underline{2}]$, $[\underline{3}]$, $[\underline{4}]$, $[\underline{5}]$, $[\underline{6}]$, $[\underline{7}]$, $[\underline{8}]$, $[\underline{9}]$, [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], $[(*)^{\text{M}}]$, $[\text{If}(*,*,*)]$, [array\{$*$\} $*$ end array], [l], [c], [r], [empty], $[\langle * \mid * := * \rangle]$, $[\mathcal{M}(*)]$, $[\tilde{\mathcal{U}}(*)]$, $[\mathcal{U}(*)]$, $[\mathcal{U}^{\text{M}}(*)]$, $[\textbf{apply}(*,*)]$, $[\textbf{apply}_1(*,*)]$, [identifier$(*)$], [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"], $[\mathcal{E}(*,*,*)]$, $[\mathcal{E}_2(*,*,*,*,*)]$, $[\mathcal{E}_3(*,*,*,*)]$, $[\mathcal{E}_4(*,*,*,*)]$, $[\textbf{lookup}(*,*,*)]$,

$[\mathbf{abstract}(*,*,*,*)]$, $[[*]]$, $[\mathcal{M}(*,*,*)]$, $[\mathcal{M}_2(*,*,*,*)]$, $[\mathcal{M}^*(*,*,*)]$, [macro], $[\mathrm{s}_0]$, $[\mathbf{zip}(*,*)]$, $[\mathbf{assoc}_1(*,*,*)]$, $[(*)^{\mathbf{P}}]$, [self], $[[* \ddot{=} *]]$, $[[* \doteq *]]$, $[[* \doteq *]]$, $[[* \overset{\text{pyk}}{=} *]]$, $[[* \overset{\text{tex}}{=} *]]$, $[[* \overset{\text{name}}{=} *]]$, $[\mathbf{Priority\ table}[*]]$, $[\tilde{\mathcal{M}}_1]$, $[\tilde{\mathcal{M}}_2(*)]$, $[\tilde{\mathcal{M}}_3(*)]$, $[\tilde{\mathcal{M}}_4(*,*,*,*)]$, $[\tilde{\mathcal{M}}(*,*,*)]$, $[\tilde{\mathcal{Q}}(*,*,*)]$, $[\tilde{\mathcal{Q}}_2(*,*,*)]$, $[\tilde{\mathcal{Q}}_3(*,*,*,*)]$, $[\tilde{\mathcal{Q}}^*(*,*,*)]$, $[(*)]$, $[(*)]$, [display(∗)], [statement(∗)], $[[*]^{\cdot}]$, $[[*]^{-}]$, $[\mathbf{aspect}(*,*)]$, $[\mathbf{aspect}(*,*,*)]$, $[\langle * \rangle]$, $[\mathbf{tuple}_1(*)]$, $[\mathbf{tuple}_2(*)]$, $[\mathrm{let}_2(*,*)]$, $[\mathrm{let}_1(*,*)]$, $[[* \overset{\text{claim}}{=} *]]$, [checker], $[\mathbf{check}(*,*)]$, $[\mathbf{check}_2(*,*,*)]$, $[\mathbf{check}_3(*,*,*)]$, $[\mathbf{check}^*(*,*)]$, $[\mathbf{check}_2^*(*,*,*)]$, $[[*]^{\cdot}]$, $[[*]^{-}]$, $[[*]^{\circ}]$, [msg], $[[* \overset{\text{msg}}{=} *]]$, [<stmt>], [stmt], $[[* \overset{\text{stmt}}{=} *]]$, [HeadNil′], [HeadPair′], [Transitivity′], $[\perp\!\!\!\perp]$, [Contra′], $[\mathrm{T}'_{\mathrm{E}}]$, $[\mathrm{L}_1]$, $[\underline{*}]$, $[\mathcal{A}]$, $[\mathcal{B}]$, $[\mathcal{C}]$, $[\mathcal{D}]$, $[\mathcal{E}]$, $[\mathcal{F}]$, $[\mathcal{G}]$, $[\mathcal{H}]$, $[\mathcal{I}]$, $[\mathcal{J}]$, $[\mathcal{K}]$, $[\mathcal{L}]$, $[\mathcal{M}]$, $[\mathcal{N}]$, $[\mathcal{O}]$, $[\mathcal{P}]$, $[\mathcal{Q}]$, $[\mathcal{R}]$, $[\mathcal{S}]$, $[\mathcal{T}]$, $[\mathcal{U}]$, $[\mathcal{V}]$, $[\mathcal{W}]$, $[\mathcal{X}]$, $[\mathcal{Y}]$, $[\mathcal{Z}]$, $[\langle * \mid * := * \rangle]$, $[\langle {}^{*} * \mid * := * \rangle]$, $[\emptyset]$, [Remainder], $[(*)^{\mathbf{v}}]$, [intro(∗, ∗, ∗, ∗)], [intro(∗, ∗, ∗)], [error(∗, ∗)], $[\mathrm{error}_2(*,*)]$, [proof(∗, ∗, ∗)], $[\mathrm{proof}_2(*,*)]$, $[\mathcal{S}(*,*)]$, $[\mathcal{S}^{\mathrm{I}}(*,*)]$, $[\mathcal{S}^{\triangleright}(*,*)]$, $[\mathcal{S}_1^{\triangleright}(*,*,*)]$, $[\mathcal{S}^{\mathrm{E}}(*,*)]$, $[\mathcal{S}_1^{\mathrm{E}}(*,*,*)]$, $[\mathcal{S}^{+}(*,*)]$, $[\mathcal{S}_1^{+}(*,*,*)]$, $[\mathcal{S}^{-}(*,*)]$, $[\mathcal{S}_1^{-}(*,*,*)]$, $[\mathcal{S}^{*}(*,*)]$, $[\mathcal{S}_1^{*}(*,*,*)]$, $[\mathcal{S}_2^{*}(*,*,*,*)]$, $[\mathcal{S}^{@}(*,*)]$, $[\mathcal{S}_1^{@}(*,*,*)]$, $[\mathcal{S}^{\vdash}(*,*)]$, $[\mathcal{S}_1^{\vdash}(*,*,*,*)]$, $[\mathcal{S}^{\Vdash}(*,*)]$, $[\mathcal{S}_1^{\Vdash}(*,*,*,*)]$, $[\mathcal{S}^{\mathrm{i.e.}}(*,*)]$, $[\mathcal{S}_1^{\mathrm{i.e.}}(*,*,*,*)]$, $[\mathcal{S}_2^{\mathrm{i.e.}}(*,*,*,*,*)]$, $[\mathcal{S}^{\forall}(*,*)]$, $[\mathcal{S}_1^{\forall}(*,*,*,*)]$, $[\mathcal{S}^{\cdot}(*,*)]$, $[\mathcal{S}_1^{\cdot}(*,*,*)]$, $[\mathcal{S}_2^{\cdot}(*,*,*,*)]$, $[\mathcal{T}(*)]$, [claims(∗, ∗, ∗)], $[\mathrm{claims}_2(*,*,*)]$, [<proof>], [proof], $[[\mathbf{Lemma}\ *\colon *]]$, $[[\mathbf{Proof\ of}\ *\colon *]]$, $[[* \ \mathbf{lemma}\ *\colon *]]$, $[[* \ \mathbf{antilemma}\ *\colon *]]$, $[[* \ \mathbf{rule}\ *\colon *]]$, $[[* \ \mathbf{antirule}\ *\colon *]]$, [verifier], $[\mathcal{V}_1(*)]$, $[\mathcal{V}_2(*,*)]$, $[\mathcal{V}_3(*,*,*,*)]$, $[\mathcal{V}_4(*,*)]$, $[\mathcal{V}_5(*,*,*,*)]$, $[\mathcal{V}_6(*,*,*,*)]$, $[\mathcal{V}_7(*,*,*,*)]$, [Cut(∗, ∗)], $[\mathrm{Head}_{\oplus}(*)]$, $[\mathrm{Tail}_{\oplus}(*)]$, $[\mathrm{rule}_1(*,*)]$, [rule(∗, ∗)], [Rule tactic], [Plus(∗, ∗)], $[[\mathbf{Theory}\ *]]$, $[\mathrm{theory}_2(*,*)]$, $[\mathrm{theory}_3(*,*)]$, $[\mathrm{theory}_4(*,*,*)]$, [HeadNil″], [HeadPair″], [Transitivity″], [Contra″], [HeadNil], [HeadPair], [Transitivity], [Contra], $[\mathrm{T}_{\mathrm{E}}]$, [ragged right], [ragged right expansion], [parm(∗, ∗, ∗)], [parm*(∗, ∗, ∗)], [inst(∗, ∗)], [inst*(∗, ∗)], [occur(∗, ∗, ∗)], [occur*(∗, ∗, ∗)], [unify(∗ = ∗, ∗)], [unify*(∗ = ∗, ∗)], $[\mathrm{unify}_2(* = *,*)]$, $[\mathrm{L_a}]$, $[\mathrm{L_b}]$, $[\mathrm{L_c}]$, $[\mathrm{L_d}]$, $[\mathrm{L_e}]$, $[\mathrm{L_f}]$, $[\mathrm{L_g}]$, $[\mathrm{L_h}]$, $[\mathrm{L_i}]$, $[\mathrm{L_j}]$, $[\mathrm{L_k}]$, $[\mathrm{L_l}]$, $[\mathrm{L_m}]$, $[\mathrm{L_n}]$, $[\mathrm{L_o}]$, $[\mathrm{L_p}]$, $[\mathrm{L_q}]$, $[\mathrm{L_r}]$, $[\mathrm{L_s}]$, $[\mathrm{L_t}]$, $[\mathrm{L_u}]$, $[\mathrm{L_v}]$, $[\mathrm{L_w}]$, $[\mathrm{L_x}]$, $[\mathrm{L_y}]$, $[\mathrm{L_z}]$, $[\mathrm{L_A}]$, $[\mathrm{L_B}]$, $[\mathrm{L_C}]$, $[\mathrm{L_D}]$, $[\mathrm{L_E}]$, $[\mathrm{L_F}]$, $[\mathrm{L_G}]$, $[\mathrm{L_H}]$, $[\mathrm{L_I}]$, $[\mathrm{L_J}]$, $[\mathrm{L_K}]$, $[\mathrm{L_L}]$, $[\mathrm{L_M}]$, $[\mathrm{L_N}]$, $[\mathrm{L_O}]$, $[\mathrm{L_P}]$, $[\mathrm{L_Q}]$, $[\mathrm{L_R}]$, $[\mathrm{L_S}]$, $[\mathrm{L_T}]$, $[\mathrm{L_U}]$, $[\mathrm{L_V}]$, $[\mathrm{L_W}]$, $[\mathrm{L_X}]$, $[\mathrm{L_Y}]$, $[\mathrm{L_Z}]$, $[\mathrm{L_?}]$, [Reflexivity], $[\mathrm{Reflexivity}_1]$, [Commutativity], $[\mathrm{Commutativity}_1]$, [<tactic>], [tactic], $[[* \overset{\text{tactic}}{=} *]]$, $[\mathcal{P}(*,*,*)]$, $[\mathcal{P}^*(*,*,*)]$, $[\mathrm{p}_0]$, $[\mathrm{conclude}_1(*,*)]$, $[\mathrm{conclude}_2(*,*,*)]$, $[\mathrm{conclude}_3(*,*,*,*)]$, $[\mathrm{conclude}_4(*,*)]$, [check], $[[* \overset{\circ}{=} *]]$, [RootVisible(∗)], [A], [R], [C], [T], [L], $[\{*\}]$, $[\overline{*}]$, $[a]$, $[b]$, $[c]$, $[d]$, $[e]$, $[f]$, $[g]$, $[h]$, $[i]$, $[j]$, $[k]$, $[l]$, $[m]$, $[n]$, $[o]$, $[p]$, $[q]$, $[r]$, $[s]$, $[t]$, $[u]$, $[v]$, $[w]$, $[x]$, $[y]$, $[z]$, $[\langle * \equiv * \mid * := * \rangle]$, $[\langle * \equiv^0 * \mid * := * \rangle]$, $[\langle * \equiv^1 * \mid * := * \rangle]$, $[\langle * \equiv^* * \mid * := * \rangle]$, [Ded(∗, ∗)], $[\mathrm{Ded}_0(*,*)]$, $[\mathrm{Ded}_1(*,*,*)]$, $[\mathrm{Ded}_2(*,*,*)]$, $[\mathrm{Ded}_3(*,*,*,*)]$, $[\mathrm{Ded}_4(*,*,*,*)]$, $[\mathrm{Ded}_4^*(*,*,*,*)]$, $[\mathrm{Ded}_5(*,*,*)]$, $[\mathrm{Ded}_6(*,*,*,*)]$, $[\mathrm{Ded}_6^*(*,*,*,*)]$, $[\mathrm{Ded}_7(*)]$, $[\mathrm{Ded}_8(*,*)]$, $[\mathrm{Ded}_8^*(*,*)]$, [S], [Neg], [MP], [Gen], [Ded], [S1], [S2], [S3], [S4], [S5], [S6], [S7], [S8], [S9], [Repetition], [A1′], [A2′], [A4′], [A5′], [Prop 3.2a], [Prop 3.2b], [Prop 3.2c], [Prop 3.2d], $[\text{Prop } 3.2\mathrm{e}_1]$, $[\text{Prop } 3.2\mathrm{e}_2]$, [Prop 3.2e], $[\text{Prop } 3.2\mathrm{f}_1]$, $[\text{Prop } 3.2\mathrm{f}_2]$, [Prop 3.2f], $[\text{Prop } 3.2\mathrm{g}_1]$, $[\text{Prop } 3.2\mathrm{g}_2]$, [Prop 3.2g], $[\text{Prop } 3.2\mathrm{h}_1]$, $[\text{Prop } 3.2\mathrm{h}_2]$, [Prop 3.2h], $[\mathrm{Block}_1(*,*,*)]$, $[\mathrm{Block}_2(*)]$, $[\overline{0}]$, $[\overline{1}]$, $[\overline{2}]$, $[\overline{3}]$, $[\overline{4}]$, $[\overline{5}]$, $[\overline{6}]$, $[\overline{7}]$, $[\overline{8}]$, $[\overline{9}]$, $[\overline{\mathrm{n}}]$, [rule div], [R], [R1], [R2], [R3], [R4], [R5], [R6], [Con1], [Con2], [Con], [Dis1], [Dis2],

[Lem1.11c], [Cor1.10a], [Cor1.10b], [Lem1.11a], [Lem1.11b], [H3], [Prop3.2c′], [S1″], [Neg′], [Repetition′], [Lem1.11e], [Lem1.11d], [Prop3.2b′], [H10], [H11], [Lem1.11g], [MT], [S10], [Prop 3.2], [Prop 3.2i], [Prop 3.2j$_1$], [Prop 3.2j$_2$], [Prop 3.2j], [Prop 3.2k$_1$], [Prop 3.2k$_2$], [Prop 3.2k], [Prop 3.2l$_1$], [Prop 3.2l$_2$], [Prop 3.2l], [Prop 3.2m$_1$], [Prop 3.2m$_2$], [Prop 3.2m], [Prop 3.2n$_1$], [Prop 3.2n$_2$], [Prop 3.2n], [Prop 3.2o], [Prop 3.4], [Prop 3.4a$_1$], [Prop 3.4a$_2$], [Prop 3.4a], [Prop 3.4b], [Prop 3.4c$_1$], [Prop 3.4c$_2$], [Prop 3.4c], [Prop 3.4d$_1$], [Prop 3.4d$_2$], [Prop 3.4d], [Prop 3.5], [Prop 3.5a], [Prop 3.5b], [Prop 3.5c], [Prop 3.5d$_1$], [Prop 3.5d$_2$], [Prop 3.5d], [Prop 3.5e$_1$], [Prop 3.5e$_2$], [Prop 3.5e], [Prop 3.5f$_1$], [Prop 3.5f$_2$], [Prop 3.5f], [Prop 3.5g$_1$], [Prop 3.5g$_4$], [Prop 3.5g$_2$], [Prop 3.5g$_3$], [Prop 3.5g], [Prop 3.5h$_1$], [Prop 3.5h$_2$], [Prop 3.5h], [Prop 3.5i$_1$], [Prop 3.5i$_2$], [Prop 3.5i], [Prop 3.5j$_1$], [Prop 3.5j$_2$], [Prop 3.5j], [Prop 3.7], [Prop 3.7a], [Prop 3.7b], [Prop 3.7c], [Prop 3.7d], [Prop 3.7e], [Prop 3.7f], [Prop 3.7g], [Prop 3.7g′], [Prop 3.7h], [Prop 3.7i], [Prop 3.7j], [Prop 3.7k], [Prop 3.7k′], [Prop 3.7l], [Prop 3.7l′], [Prop 3.7m], [Prop 3.7n], [Prop 3.7o], [Prop 3.7p], [Prop 3.7q], [Prop 3.7r], [Prop 3.7s], [Prop 3.7t], [Prop 3.7u], [Prop 3.7u′], [Prop 3.7v], [Prop 3.7w], [Prop 3.7x], [Prop 3.7x′], [Prop 3.7y], [Prop 3.7y′], [Prop 3.7z], [Prop 3.7z′], [Prop 3.10], [Prop 3.10a], [Prop 3.10b], [Prop 3.10c], [Prop 3.10d], [Prop 3.10e], [Prop 3.10f], [Prop 3.10g], [Prop 3.10h], [Prop 3.11];

Preassociative

[$*$-{$*$}], [$*$/indexintro($*,*,*,*$)], [$*$/intro($*,*,*$)], [$*$/bothintro($*,*,*,*,*$)], [$*$/nameintro($*,*,*,*$)], [$*'$], [$*[\ *\ ]$], [$*[*\rightarrow *]$], [$*[*\Rightarrow *]$], [$*0$], [$*1$], [0b], [$*$-color($*$)], [$*$-color*($*$)], [$*^{\mathrm{H}}$], [$*^{\mathrm{T}}$], [$*^{\mathrm{U}}$], [$*^{\mathrm{h}}$], [$*^{\mathrm{t}}$], [$*^{\mathrm{s}}$], [$*^{\mathrm{c}}$], [$*^{\mathrm{d}}$], [$*^{\mathrm{a}}$], [$*^{\mathrm{C}}$], [$*^{\mathrm{M}}$], [$*^{\mathrm{B}}$], [$*^{\mathrm{r}}$], [$*^{\mathrm{i}}$], [$*^{\mathrm{d}}$], [$*^{\mathrm{R}}$], [$*^0$], [$*^1$], [$*^2$], [$*^3$], [$*^4$], [$*^5$], [$*^6$], [$*^7$], [$*^8$], [$*^9$], [$*^{\mathrm{E}}$], [$*^{\mathcal{V}}$], [$*^{\mathcal{C}}$], [$*^{\mathcal{C}^*}$], [$*^{\mathrm{hide}}$];

Preassociative

[“ $*$ ”], [], [$(*)^{\mathbf{t}}$], [string($*$) + $*$], [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$*$], [[$*$], [\$*$], []$*$], [ˆ$*$], [_$*$], [‘$*$], [a$*$], [b$*$], [c$*$], [d$*$], [e$*$], [f$*$], [g$*$], [h$*$], [i$*$], [j$*$], [k$*$], [l$*$], [m$*$], [n$*$], [o$*$], [p$*$], [q$*$], [r$*$], [s$*$], [t$*$], [u$*$], [v$*$], [w$*$], [x$*$], [y$*$], [z$*$], [{$*$], [|$*$], [}$*$], [˜$*$], [**Preassociative** $*;*$], [**Postassociative** $*;*$], [[$*$], $*$], [priority $*$ end], [newline $*$], [macro newline $*$], [MacroIndent($*$)];

Preassociative

[$*$ ’ $*$], [$*$ ‘ $*$];

Preassociative

[$*'$];

Preassociative

[$*\cdot *$], [$*\cdot_0 *$];

Preassociative

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

Preassociative

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

Postassociative

$[* \mathrel{\therefore} *], [* \underline{\mathrel{\therefore}} *], [* \underline{::} *], [* \underline{+2*} *], [* :: *], [* +2* *];$
Postassociative
$[*, *];$
Preassociative
$[* \overset{\mathrm{B}}{\approx} *], [* \overset{\mathrm{D}}{\approx} *], [* \overset{\mathrm{C}}{\approx} *], [* \overset{\mathrm{P}}{\approx} *], [* \approx *], [* = *], [* \overset{+}{\to} *], [* \overset{\mathrm{t}}{=} *], [* \overset{\mathrm{t}^*}{=} *], [* \overset{\mathrm{r}}{=} *],$
$[* \in_{\mathrm{t}} *], [* \subseteq_{\mathrm{T}} *], [* \overset{\mathrm{T}}{=} *], [* \overset{\mathrm{s}}{=} *], [* \text{ free in } *], [* \text{ free in}^* *], [* \text{ free for } * \text{ in } *],$
$[* \text{ free for}^* * \text{ in } *], [* \in_{\mathrm{c}} *], [* < *], [* <' *], [* \leq' *], [* = *], [* \neq *], [*^{\mathrm{var}}],$
$[*\#^0*], [*\#^1*], [*\#^**], [* < *], [* \leq *], [* \not< *], [* > *], [* \geq *], [* \not> *], [* \neq *];$
Preassociative
$[\neg *];$
Preassociative
$[* \wedge *], [* \ddot{\wedge} *], [* \tilde{\wedge} *], [* \wedge_{\mathrm{c}} *], [* \wedge *];$
Preassociative
$[* \vee *], [* \parallel *], [* \ddot{\vee} *], [* \vee *];$
Preassociative
$[\exists * \colon *], [\forall * \colon *], [\forall_{\mathrm{obj}} * \colon *], [\exists * \colon *];$
Postassociative
$[* \ddot{\Rightarrow} *], [* \Rightarrow *], [* \Leftrightarrow *];$
Postassociative
$[* : *], [* \text{ spy } *], [*!*];$
Preassociative
$[* \begin{cases} * \\ * \end{cases}];$
Preassociative
$[\lambda * . *], [\Lambda * . *], [\Lambda *], [\textbf{if } * \textbf{ then } * \textbf{ else } *], [\textbf{let } * = * \textbf{ in } *], [\textbf{let } * \ddot{=} * \text{ in } *];$
Preassociative
$[*\#*];$
Preassociative
$[*^{\mathrm{I}}], [*^{\triangleright}], [*^{\mathrm{V}}], [*^{+}], [*^{-}], [*^*];$
Preassociative
$[* @ *], [* \triangleright *], [* \blacktriangleright *], [* \gg *], [* \trianglerighteq *];$
Postassociative
$[* \vdash *], [* \Vdash *], [* \text{ i.e. } *];$
Preassociative
$[\forall * \colon *], [\Pi * \colon *];$
Postassociative
$[* \oplus *];$
Postassociative
$[*; *];$
Preassociative
$[* \text{ proves } *];$
Preassociative
$[* \textbf{ proof of } * : *], [\text{Line } * : * \gg *; *], [\text{Last line } * \gg * \,\square],$
$[\text{Line } * : \text{Premise} \gg *; *], [\text{Line } * : \text{Side-condition} \gg *; *], [\text{Arbitrary} \gg *; *],$
$[\text{Local} \gg * = *; *], [\text{Begin } *; * : \text{End}; *], [\text{Last block line } * \gg * \,;],$

[Arbitrary $\gg *; *$];
Postassociative
$[* \mid *]$;
Postassociative
$[* , *], [*[*]*]$;
Preassociative
$[*\&*], [\rightarrow]$;
Preassociative
$[*\backslash\backslash*], [*$ linebreak[4] $*], [*\backslash\backslash*], [* \mid *], [* \ldots];]$