

Logiweb codex of check

Up Help

check, L, A1, A2, A3, MP, I, *, *!, * ⇒ *

check

[check $\xrightarrow{\text{prio}}$

Preassociative

[check], [base], [bracket * end bracket], [big bracket * end bracket], [\$ * \$],
[flush left [*]], [x], [y], [z], [[* \bowtie *]], [[* \rightarrow *]], [pyk], [tex], [name], [prio], [*, [T],
[if(*, *, *)], [[* $\xrightarrow{*}$ *]], [val], [claim], [\perp], [f(*)], [(*)^I], [F], [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], [(\langle * | * := * \rangle)], [\mathcal{M} (*)], [$\tilde{\mathcal{U}}$ (*)], [\mathcal{U} (*)],
[\mathcal{U}^M (*)], [apply(*, *)], [apply₁(*, *)], [identifier(*)], [identifier₁(*, *)], [array-
plus(*, *)], [array-remove(*, *, *)], [array-put(*, *, *, *)], [array-add(*, *, *, *, *)],
[bit(*, *)], [bit₁(*, *)], [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],
[s₀], [zip(*, *)], [assoc₁(*, *, *)], [(*)^P], [self], [[* \doteq *]], [[* \doteq *]], [[* \doteq *]],
[[* $\stackrel{\text{pyk}}{=}$ *]], [[* $\stackrel{\text{tex}}{=}$ *]], [[* $\stackrel{\text{name}}{=}$ *]], [Priority table[*]], [$\tilde{\mathcal{M}}_1$], [$\tilde{\mathcal{M}}_2$ (*)], [$\tilde{\mathcal{M}}_3$ (*)],
[$\tilde{\mathcal{M}}_4$ (*, *, *, *)], [\mathcal{M} (*, *, *)], [\mathcal{Q} (*, *, *)], [$\tilde{\mathcal{Q}}_2$ (*, *, *)], [$\tilde{\mathcal{Q}}_3$ (*, *, *, *)], [$\tilde{\mathcal{Q}}^*$ (*, *, *)],
[(*)], [(*)], [display(*)], [statement(*)], [[*]'], [[*]⁻], [aspect(*, *)],
[aspect(*, *, *)], [(\langle *)], [tuple₁(*)], [tuple₂(*)], [let₂(*, *)], [let₁(*, *)],
[[* $\stackrel{\text{claim}}{=}$ *]], [checker], [check(*, *)], [check₂(*, *, *)], [check₃(*, *, *)],
[check^{*}(*, *)], [check₂^{*}(*, *, *)], [[*]'], [[*]⁻], [[*]^o], [msg], [[* $\stackrel{\text{msg}}{=}$ *]], [<stmt>],
[stmt], [[* $\stackrel{\text{stmt}}{=}$ *]], [HeadNil'], [HeadPair'], [Transitivity'], [\perp], [Contra'], [T_E'],
[L₁], [*, [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 * | * := * \rangle)], [(\langle * * | * := * \rangle)], [∅], [Remainder],
[(*)^v], [intro(*, *, *, *)], [intro(*, *, *)], [error(*, *)], [error₂(*, *)], [proof(*, *, *)],
[proof₂(*, *)], [S(*, *)], [S^I(*, *)], [S^D(*, *)], [S₁^D(*, *, *)], [S^E(*, *)], [S₁^E(*, *, *)],
[S⁺(*, *)], [S₁⁺(*, *, *)], [S⁻(*, *)], [S₁⁻(*, *, *)], [S^{*}(*, *)], [S₁^{*}(*, *, *)],
[S₂^{*}(*, *, *, *)], [S[@](*, *)], [S₁[@](*, *, *)], [S⁺(*, *)], [S₁⁺(*, *, *, *)], [S⁺(*, *)],
[S₁⁺(*, *, *, *)], [S^{i.e.}(*, *)], [S₁^{i.e.}(*, *, *, *)], [S₂^{i.e.}(*, *, *, *, *)], [S^v(*, *)],
[S₁^v(*, *, *, *)], [Sⁱ(*, *)], [S₁ⁱ(*, *, *)], [S₂ⁱ(*, *, *, *)], [T(*)], [claims(*, *, *)],

[claims₂(* , * , *)], [<proof>], [proof], [[**Lemma** * : *]], [[**Proof of** * : *]],
 [[* **lemma** * : *]], [[* **antilemma** * : *]], [[* **rule** * * : *]], [[* **antirule** * : *]],
 [verifier], [\mathcal{V}_1 (*)], [\mathcal{V}_2 (* , *)], [\mathcal{V}_3 (* , * , * , *)], [\mathcal{V}_4 (* , *)], [\mathcal{V}_5 (* , * , * , *)], [\mathcal{V}_6 (* , * , * , *)],
 [\mathcal{V}_7 (* , * , * , *)], [Cut(* , *)], [Head \oplus (*)], [Tail \oplus (*)], [rule₁(* , *)], [rule(* , *)],
 [Rule tactic], [Plus(* , *)], [[**Theory** *]], [theory₂(* , *)], [theory₃(* , *)],
 [theory₄(* , * , *)], [HeadNil''], [HeadPair''], [Transitivity''], [Contra''], [HeadNil],
 [HeadPair], [Transitivity], [Contra], [T_E], [ragged right],
 [ragged right expansion], [parm(* , * , *)], [parm*(* , * , *)], [inst(* , *)],
 [inst*(* , *)], [occur(* , * , *)], [occur*(* , * , *)], [unify(* = * , *)], [unify*(* = * , *)],
 [unify₂(* = * , *)], [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_?], [Reflexivity], [Reflexivity₁],
 [Commutativity], [Commutativity₁], [<tactic>], [tactic], [[* ^{tactic} *]], [\mathcal{P} (* , * , *)],
 [\mathcal{P}^* (* , * , *)], [p₀], [conclude₁(* , *)], [conclude₂(* , * , *)], [conclude₃(* , * , * , *)],
 [conclude₄(* , *)], [L], [A1], [A2], [A3], [MP], [I];

Preassociative

[*-{*}], [* /indexintro(* , * , * , *)], [* /intro(* , * , *)], [* /bothintro(* , * , * , * , *)],
 [* /nameintro(* , * , * , *)], [* '], [* [*]], [* [* \rightarrow *]], [* [* \Rightarrow *]], [* 0], [* 1], [0b], [* -color(*)],
 [* -color*(*)], [* ^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

[“ * ”], [], [(*)^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 *], [* \ *], [* \ *], [* \ *], [^ *],
 [* _ *], [* ` *], [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 *];

Preassociative

[* ' *], [* ' *];

Preassociative

[* . *], [* . 0 *];

Preassociative

[* + *], [* + 0 *], [* + 1 *], [* - *], [* - 0 *], [* - 1 *];

Preassociative

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

Postassociative

[* . : *], [* . : *], [* : : *], [* + 2 * *], [* : : *], [* + 2 * *];

Postassociative

[* , *];

Preassociative

[* \approx^B *], [* \approx^D *], [* \approx^C *], [* \approx^P *], [* \approx *], [* \approx *], [* = *], [* \rightarrow *], [* \doteq *], [* \doteq^* *], [* \doteq^r *],

$[* \in_t *], [* \subseteq_T *], [* \stackrel{T}{=} *], [* \stackrel{s}{=} *], [* \text{ free in } *], [* \text{ free in }^* *], [* \text{ free for } * \text{ in } *],$
 $[* \text{ free for }^* * \text{ in } *], [* \in_c *], [* < *], [* <' *], [* \leq' *];$

Preassociative

$[\neg *];$

Preassociative

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

Preassociative

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

Postassociative

$[* \dot{\Rightarrow} *], [* \Rightarrow *];$

Postassociative

$[* : *], [* \text{ spy } *], [* ! *];$

Preassociative

$[* \left\{ \begin{array}{c} * \\ * \end{array} \right.];$

Preassociative

$[\lambda * . *], [\Lambda * . *], [\Lambda *], [\text{if } * \text{ then } * \text{ else } *], [\text{let } * = * \text{ in } *], [\text{let } * \ddot{=} * \text{ in } *];$

Preassociative

$[* \uparrow], [* \triangleright], [* \vee], [* \uparrow], [* \neg], [* *];$

Preassociative

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

Postassociative

$[* \vdash *], [* \# *], [* \text{ i.e. } *];$

Preassociative

$[\forall * : *];$

Postassociative

$[* \oplus *];$

Postassociative

$[* : *];$

Preassociative

$[* \text{ proves } *];$

Preassociative

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

Postassociative

$[* \text{ then } *], [* [*] *];$

Preassociative

$[* \& *];$

Preassociative

$[* \setminus \setminus *];$

$[\text{check} \xrightarrow{\text{pyk}} \text{“check”}]$

L

$[L \xrightarrow{\text{stmt}} [\forall \underline{a}: \forall \underline{b}: \forall \underline{c}: [[\underline{a} \Rightarrow [\underline{b} \Rightarrow \underline{c}]] \Rightarrow [[\underline{a} \Rightarrow \underline{b}] \Rightarrow [\underline{a} \Rightarrow \underline{c}]]]]] \oplus$
 $[[\forall \underline{a}: \forall \underline{b}: [\underline{a} \vdash [[\underline{a} \Rightarrow \underline{b}] \vdash \underline{b}]]] \oplus [[\forall \underline{a}: \forall \underline{b}: [\underline{a} \Rightarrow [\underline{b} \Rightarrow \underline{a}]]]]$
 $\oplus \forall \underline{a}: \forall \underline{b}: [[[\neg \underline{b}] \Rightarrow \neg \underline{a}] \Rightarrow [[[\neg \underline{b}] \Rightarrow \underline{a}] \Rightarrow \underline{b}]]]]$

$[L \xrightarrow{\text{tex}}$
L”]

$[L \xrightarrow{\text{pyk}}$ “propositional calculus”]

A1

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

$[A1 \xrightarrow{\text{stmt}} L \vdash \forall \underline{a}: \forall \underline{b}: [\underline{a} \Rightarrow [\underline{b} \Rightarrow \underline{a}]]]$

$[A1 \xrightarrow{\text{tex}}$
A1”]

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

A2

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

$[A2 \xrightarrow{\text{stmt}} L \vdash \forall \underline{a}: \forall \underline{b}: \forall \underline{c}: [[\underline{a} \Rightarrow [\underline{b} \Rightarrow \underline{c}]] \Rightarrow [[\underline{a} \Rightarrow \underline{b}] \Rightarrow [\underline{a} \Rightarrow \underline{c}]]]]$

$[A2 \xrightarrow{\text{tex}}$
A2”]

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

A3

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

$[A3 \xrightarrow{\text{stmt}} L \vdash \forall \underline{a}: \forall \underline{b}: [[[\neg \underline{b}] \Rightarrow \neg \underline{a}] \Rightarrow [[[\neg \underline{b}] \Rightarrow \underline{a}] \Rightarrow \underline{b}]]]$

$[A3 \xrightarrow{\text{tex}}$
A3”]

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

MP

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

[MP $\xrightarrow{\text{stmt}}$ L $\vdash \forall \underline{a}: \forall \underline{b}: [\underline{a} \vdash [[\underline{a} \Rightarrow \underline{b}] \vdash \underline{b}]]$]]

[MP $\xrightarrow{\text{tex}}$ “
MP”]

[MP $\xrightarrow{\text{pyk}}$ “propositional modus ponens”]

I

[I $\xrightarrow{\text{proof}}$ $\lambda c. \lambda x. \mathcal{P}([L \vdash \forall \underline{a}: [[A1 \gg [\underline{a} \Rightarrow [[\underline{a} \Rightarrow \underline{a}] \Rightarrow \underline{a}]]]] ; [[A1 \gg [\underline{a} \Rightarrow [\underline{a} \Rightarrow \underline{a}]]]] ; [[A2 \gg [[\underline{a} \Rightarrow [[\underline{a} \Rightarrow \underline{a}] \Rightarrow \underline{a}]] \Rightarrow [[\underline{a} \Rightarrow [\underline{a} \Rightarrow \underline{a}]] \Rightarrow [\underline{a} \Rightarrow \underline{a}]]]] ; [[[[MP \triangleright [\underline{a} \Rightarrow [[\underline{a} \Rightarrow \underline{a}] \Rightarrow \underline{a}]]]] \triangleright [[\underline{a} \Rightarrow [[\underline{a} \Rightarrow \underline{a}] \Rightarrow \underline{a}]] \Rightarrow [[\underline{a} \Rightarrow [\underline{a} \Rightarrow \underline{a}]] \Rightarrow [\underline{a} \Rightarrow \underline{a}]]]]]] \gg [[\underline{a} \Rightarrow [\underline{a} \Rightarrow \underline{a}]] \Rightarrow [\underline{a} \Rightarrow \underline{a}]]] ; [[[[MP \triangleright [\underline{a} \Rightarrow [\underline{a} \Rightarrow \underline{a}]]]] \triangleright [[\underline{a} \Rightarrow [\underline{a} \Rightarrow \underline{a}]] \Rightarrow [\underline{a} \Rightarrow \underline{a}]]]]]] \gg [\underline{a} \Rightarrow \underline{a}]]]] , p_0, c)$]

[I $\xrightarrow{\text{stmt}}$ L $\vdash \forall \underline{a}: [\underline{a} \Rightarrow \underline{a}]$]]

[I $\xrightarrow{\text{tex}}$ “
I”]

[I $\xrightarrow{\text{pyk}}$ “propositional identity”]

*!

[n! $\xrightarrow{\text{val}}$ If($n \approx 0, 1, n \cdot [[n - 1] !]$)]

[n! $\xrightarrow{\text{tex}}$ “#1.
\char33”]

[n! $\xrightarrow{\text{pyk}}$ “* factorial”]

* \Rightarrow *

[x \Rightarrow y $\xrightarrow{\text{tex}}$ “#1.
\Rightarrow #2.”]

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

The pyk compiler, version 0.grue.20060417 by Klaus Grue

*GRD-2006-03-23.UTC:14:12:03.840322 = MJD-53817.TAI:14:12:36.840322 =
LGT-4649839956840322e-6*