

MakerLisp

The MakerLisp dialect of Lisp is a Lisp with the Scheme model of expression evaluation, low-level macros and language functions with Common Lisp spellings and semantics, C language arithmetic, and standard C library functions.

MakerLisp is time and space efficient. Some simple generational and write barrier techniques keep the amount of garbage to collect, and collection latency, low.

The MakerLisp system is written in portable C, and just-in-time interprets a tiny core language. All additional forms and functions are provided via Lisp functions and macros.

MakerLisp Quick Language Reference

Types

Continuation, Integer, Pair, Real Number, Symbol, Vector

Special Forms

call/cc, case, cond, define, for, if, lambda, let, let*, macro, progn, quote, setq, switch, while

Functions

~, ^, ~, <, <<, <=, =, >, >>, >=, |, -, /, *, &, %, +, append, apply, assignedp, assoc, assq, atom, boundp, caaar, caaddr, caaar, caaddr, caaddr, caadr, caar, cadaar, cadadr, cadar, caddr, caddr, caddr, cadr, car, cats, cdaaar, cdaadr, cdaar, cdadar, cdaddr, cdadr, cdar, cdbaar, cddadr, cddar, cdddar, cdddr, cdddr, cddr, cdr, cons, constant, defer, div, eq, eql, error, eval, ffcall, for, gensym, global, include, int2real, int2sym, integerp, length, less, let, let*, list, list2vector, listp, mul, nlprint, not, nth, null, numberp, or, pairp, print, quit, read, real2int, realp, reverse, rplaca, rplacd, sub, sym2int, symbolp, vector, vector2list, vectorp, vlen, vref, vset, zerop

... plus C library or other functions, via C foreign function interface.

Utilities

debug, discard, expand, load, trace