

A. I. Lisp or Multics

2/1/72



1. General concern for cost of all since most Lisp subroutines are very small.

2. Arrows missing, should be added a known pattern

3. Macros, eval + compile time.  
add to evaluator

4. Evaluator is good  
Compiler is hard to maintain, hard to change.

5. omitted labels, lexprs, allow variable length  
calling sequence.

6. Unbalanced atoms missing; atoms can't go away  
should garbage collect atoms

7. Read function inflexible; A.I. Lisp is superflexible

8. Condition handling is out of date

9. (union deviation) Have wd, l convention instead of ~~fixes~~

10. Show how an issue on the Home.

11. (Lisp)

Fewer differences

12. How Are Big Number Lisp <sup>Project</sup> <sub>System</sub>

Initial

Strategy:

Upgrade interpreter (PL/I) to A1 Line  
Add a new Lisp compiler within in Lisp  
perhaps starting with A1Lisp in Lisp

Worry about performance details later.

Completion time: Math lib remains on PL/I files.

Upgrade Interpreter: ~ 3 months  
New Compiler: 6-9 months