

TO: Smalltalk Group
Computer Research Laboratory

FROM: Sue Grady *Sue Grady*
Mayer Schwartz *Mayer Schwartz*

SUBJECT: Agreements on Smalltalk-80 Development

DATE: 11-18-81

This memo is to document a discussion we had on 11-18-81 concerning installing Smalltalk-80 on DAD's systems and Magnolia. The following is a statement of our combined goals:

To install Smalltalk-80 with an improved performance interpreter on Magnolia by February 1, 1982 (for Research Forum) and on DAD systems by March 1, 1982 (for Assessment Study). To allow both groups access to tools which were used in the development of the installed software. To work together and not to duplicate effort. To avoid perturbing current plans in a manner that would violate the 2/1/82 and 3/1/82 deadlines.

With those goals in mind, the following suggestions of the project team were agreed on by us:

1. Jason and Allen will proceed on with a design of a new version of the interpreter.
2. Allen will implement this new interpreter in assembly language using Tek Labs UNIX system (either from building 94 via modem or from building 50). Allen will work in building 94 at least part time until AP210 (completion of the new interpreter). New interpreter will be available by March 1, 1982, and Allen will port the new interpreter to DAD 68000 system by March 1, 1982.
3. Jason will implement incremental performance enhancements to the current interpreter. These will be available by February 1, 1982 and Jason and Allen will insure these are ported to Magnolia by the February 1 deadline. Jason will use Tops 20 on the DEC 20 in Wilsonville.
4. Incremental enhancements are expected to reach 3-5K Byte codes per second speed. New interpreter may reach 8-10K Byte codes per second speed.

5. Sue will send license for Smalltalk-80 Virtual Image to Mayer for signature (by Wim Velsink) and as soon as approval completed Allen will port current version of Smalltalk-80 to Magnolia.
6. Allen will write a "sifter" to edit UNIX 68000 assembly source code to Tops 20 68000 assembly source.
7. Both Allen and Jason will implement 68000 assembly versions keeping in mind that the software will be ported to another system.

Since Allen and Jason are both engineering improvements to the Smalltalk-80 interpreter, Sue will fund Jason and his computer time and Rick LeFaivre will fund Allen.

SG:jc

distribution:

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