XEROX
BUSINESS SYSTEMS
System Development Division

To: W. Shultz   Date: April 21, 1978

From: W. C. Lynch   Location: Palo Alto

Subject: Pilot Status Report   Organization: SDD/SD/SSW/Pilot
for April '78

Archive document #: To be assigned by Ode Binkley

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Staffing and Equipment

The arrival and acceptance of D0 is now a critical factor in the release of Pilot.

Pilot

The release of Pilot 2.0 has been rescheduled for the end of August, 1978.

The release date for Pilot 2.0 has been slipped to August 30, 1978, with alpha test beginning a month earlier. This date is predicated on the delivery of the first D0 to SDD at the end of April, the delivery of the interim disk controller at the end of April and the availability of this equipment to Mesa group for debugging approximately two weeks after delivery and to the Pilot group approximately one month after delivery. The release date is in week-for-week slip with the arrival date for the D0. See "D0 Conversion Plans", memo by W. Shultz, April 4, 1978 for more details.

Consideration will be given in mid-May to the release of an Alto Pilot 2.0 having substantial commonality with Pilot 2.0 on the D0. We are currently planning *not* to have a 2.0 release of Alto Pilot. However, severe changes in the availability of D0s would increase the value of an Alto Pilot 2.0.

Pilot Work Plan - D13

The *Pilot Design Work Plan* ([Iris]<Lynch>PilotWp.memo) has been revised and is available on Iris. Events are moving fast enough that the workplan is suffering rapid obsolescence in task detail (but not in overall manpower levels). The symbols on the subtitles refer to tasks planned in that document.

Pilot Design Spec - D3

Version 1.1 (draft status) of the *Pilot Design Specifications* was produced on March 1, 1978 and has remained static since that time.

Pilot Functional Spec - D2

The release date of the *Pilot Functional Specifications* 2.1 has slipped to the end of April. Every effort will be made to achieve that date.

Revision of the *Pilot Functional Specification* is in full swing with Version 2.1 to be released at the end of April. Hugh Lauer is continuing as editor. The sections on processes, memory management, and file management are being refined, the sections on streams and I/O are undergoing significant changes particularly in the client interface, and more information is being provided in many places where only placeholders existed in the 2.0 version.

Alto/Pilot Release - D19

A final testing report has been received from Product Software.

Pilot Testing - D11, D6

The *Pilot Test Plan* has been completed and was released at the end of February, 1978. Many thanks to Toni Shetler's efforts.

Pilot Implementation

Pilot implementation is now our major activity and will continue to be our major activity through June. The assignments below and the work plan should be consulted for details.

Tom Horsley has completed the third round of file organization for the implementation.

First cut coding is approximately 50% complete for the virtual memory management and file systems and 100% complete for processes. With the receipt of the alpha test release of Mesa 4.0 we will not have to work around those missing vital features implemented in Mesa 4.0.

Coding and unit testing of the other sections (such as communications) can proceed independently using Alto/Pilot as the test bed.

Assignments

Gifford: Phasing out to work on his PhD thesis.

Horsley: Complete the revisions to the *Pilot Functional Specification 2.1* for which Pitts Jarvis is responsible (i.e. IOCS, Disk Drivers). Organize the filing structure for holding our various development documents and code in a way compatible with the Tools Librarian. Work on the Pilot *Install* facility. Consult on the construction and integration of Pilot microcode. Maintain release 1.0 of Alto/Pilot.

Lauer: Edit the *Pilot Functional Specifications*. Construct a prototype implementation of ByteStreams and make it operational within Alto Pilot. Edit the *OIS Mesa Functional*

Specifications.   Edit the *Pilot Concepts and Facilities.*

Lynch: Revise the *Pilot Development Work Plan.* Review the *Pilot Design Specifications.* Help with recruiting new personnel for '78. Work Plans, D0 conversion plans, *Pilot Functional Specifications.*

McJones: Implement the *swapper* and the *virtual memory manager* for Pilot 2.0.

Purcell: Aid Redell in the implementation of the *file. page transfer* and *file manager* modules for Pilot.2.0. Implement the frame allocation modules within the *Low-level Mesa support* facilities for Pilot 2.0.   Work on *Pogo* in the background.

Redell: Lead the implementation of the *file page transfer* and *file manager* modules for Pilot 2.0.   Work with the Mesa group to produce the required process structure documentation for the upcoming release of Mesa 4.0.   Implement the *Low-level Mesa support* facilities for Pilot 2.0.