

Intel Corporation
Memory Components Div.
1900 Prairie City Rd.
Folsom, CA 95630
Mail Stop: FM3-83



July 11, 1997

BP Microsystems Inc.
1000 N. Post Oak Rd. #225
Houston, TX 77055-7237

REF: **Intel and BP Microsystems Inc. Test Services Agreement dated 11/1/95**

Dear Programmer Vendor:

I am pleased to inform **BP Microsystems Inc.** that your device programming hardware and software has passed programmer testing by the Memory Components Division (MCD). Programmer testing was conducted by MCD under the following test parameters:

DEVICE PROGRAMMER:	BP-2200
PROGRAMMER SOFTWARE:	3.25.2
HARDWARE TESTED:	Attached in Table 1

MCD's Programmer testing consists of functional tests of Intel Flash memory products on the specified hardware and software programming platform. MCD tests the functionality of Flash erase, data program, and data read algorithms using multiple data patterns. The results of this programmer testing are contained in the attached **Table 1 DEVICE Programmer Test Report**.

When **BP Microsystems Inc.** releases Flash related programmer revisions, please provide these revisions to MCD and we will test these new algorithms. Thank you for your participation in this value added program.

Sincerely yours,

A handwritten signature in cursive script that reads "Peter T. Larsen".

Peter T. Larsen
MCD Programmer Evaluation Lab, Manager

Tel (916) 356-2269
FAX (916) 356-2803

Internet: Peter_Larsen@ccm.fm.intel.com

Table 1
DEVICE Programmer Test Report

Intel Flash memory products that passed programmer testing using BP Microsystems Inc. BP-2200, software revision 3.25.2 programmer hardware and software:

PART NUMBER	MODULE	CIC PART NUMBER	ET PART NUMBER
Fast Flash:			
E28F016XS	SM56T	56TS-40D-D6-YAM-S	56-40-04TS-6YAM-S
DA28F016XS	SM56SSOP (SM48D w/SCKT ADPT)	56SS-40D-B6-TI	56-40-02SS-6TI
E28F016XD	SM56T		
FlashFile:™			
DD28F032SA	SM56T (SM48D w/SCKT ADPT)	56TS-44D-C6-YAM-S	56-44-03TS-6YAM-S
E28F016SA	SM56T (SM48D w/SCKT ADPT)	56TS-44D-C6-YAM-S	56-44-03TS-6YAM-S
E28F016SV	SM56T (SM48D w/SCKT ADPT)	56TS-44D-C6-YAM-S	56-44-03TS-6YAM-S
DA28F016SA	SM56SSOP (SM48D w/SCKT ADPT)	56SS-44D-A6-TI	56-44-01SS-6TI
DA28F016SV	SM56SSOP (SM48D w/SCKT ADPT)	56SS-44D-A6-TI	56-44-01SS-6TI
E28F008SA	SM40TB/SM56T (SM48D w/SCKT ADPT)	40TS-40D-A6-YAM-S	40-40-01TS-6YAM-S
F28F008SA	SM40TB/SM56T (SM48D w/SCKT ADPT)	40TS-40D-A6-YAM-R	40-40-01TS-6YAM-R
PA28F008SA	SM44S (SM48D w/SCKT ADPT)	44PS-40D-A6-YAM	44-40-03S-6YAM
E28F008SA-L	SM40TB/SM56T (SM48D w/SCKT ADPT)	40TS-40D-A6-YAM-S	40-40-01TS-6YAM-S
F28F008SA-L	SM40TB/SM56T (SM48D w/SCKT ADPT)	40TS-40D-A6-YAM-R	40-40-01TS-6YAM-R
E28F008SC	SM56T/SM40TB	40TS-40D-A6-YAM-S	40-40-01TS-6YAM-S
E28F008S5	SM56T/SM40TB	40TS-40D-A6-YAM-S	40-40-01TS-6YAM-S
PA28F008SA-L	SM44S (SM48D w/SCKT ADPT)	44PS-40D-A6-YAM	44-40-03S-6YAM
Boot Block:			
E28F400BX-T	SM56T (SM48D w/SCKT ADPT)	56TS-44D-A6-YAM-S	56-44-01TS-6YAM-S
PA28F400BX-T	SM44S (SM48D w/SCKT ADPT)	44PS-44D-A6-YAM	44-44-01S-6YAM
E28F400BX-B	SM56T (SM48D w/SCKT ADPT)	56TS-44D-A6-YAM-S	56-44-01TS-6YAM-S
PA28F400BX-B	SM44S (SM48D w/SCKT ADPT)	44PS-44D-A6-YAM	44-44-01S-6YAM
E28F400BL-T	SM56T (SM48D w/SCKT ADPT)	56TS-44D-A6-YAM-S	56-44-01TS-6YAM-S
PA28F400BL-T	SM44S (SM48D w/SCKT ADPT)	44PS-44D-A6-YAM	44-44-01S-6YAM
E28F400BL-B	SM56T (SM48D w/SCKT ADPT)	56TS-44D-A6-YAM-S	56-44-01TS-6YAM-S
PA28F400BL-B	SM44S (SM48D w/SCKT ADPT)	44PS-44D-A6-YAM	44-44-01S-6YAM
E28F004BX-T	SM40TB/SM56T (SM48D w/SCKT ADPT)	40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
E28F004BX-B	SM40TB/SM56T (SM48D w/SCKT ADPT)	40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
E28F004BL-T	SM40TB/SM56T (SM48D w/SCKT ADPT)	40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
E28F004BL-B	SM40TB/SM56T (SM48D w/SCKT ADPT)	40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
E28F200BX-T	SM56T (SM48D w/SCKT ADPT)	56TS-44D-A6-YAM-S	56-44-01TS-6YAM-S
PA28F200BX-T	SM44S (SM48D w/SCKT ADPT)	44PS-44D-A6-YAM	44-44-01S-6YAM
E28F200BX-B	SM56T (SM48D w/SCKT ADPT)	56TS-44D-A6-YAM-S	56-44-01TS-6YAM-S
PA28F200BX-B	SM44S (SM48D w/SCKT ADPT)	44PS-44D-A6-YAM	44-44-01S-6YAM
E28F200BL-T	SM56T (SM48D w/SCKT ADPT)	56TS-44D-A6-YAM-S	56-44-01TS-6YAM-S
PA28F200BL-T	SM44S (SM48D w/SCKT ADPT)	44PS-44D-A6-YAM	44-44-01S-6YAM
E28F200BL-B	SM56T (SM48D w/SCKT ADPT)	56TS-44D-A6-YAM-S	56-44-01TS-6YAM-S
PA28F200BL-B	SM44S (SM48D w/SCKT ADPT)	44PS-44D-A6-YAM	44-44-01S-6YAM
E28F002BX-T	SM40TB/SM56T (SM48D w/SCKT ADPT)	40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
E28F002BX-B	SM40TB/SM56T (SM48D w/SCKT ADPT)	40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
E28F002BL-T	SM40TB/SM56T (SM48D w/SCKT ADPT)	40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
E28F002BL-B	SM40TB/SM56T (SM48D w/SCKT ADPT)	40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
E28F001BX-T	SM32TEA/SM40TB/SM56T (SM48D w/SCKT ADPT)	32TS-32D-A6-ENP-S	32-32-01TS-6YAM-S
E28F001BX-B	SM32TEA/SM40TB/SM56T (SM48D w/SCKT ADPT)	32TS-32D-A6-ENP-S	32-32-01TS-6YAM-S
N28F001BX-T	SM84UP/SM32P (SM48W/SCKT ADPT)	32PL-32D-A6-YAM	32-32-01P-6YAM
N28F001BX-B	SM84UP/SM32P (SM48W/SCKT ADPT)	32PL-32D-A6-YAM	32-32-01P-6YAM
P28F001BX-T	SM48D	N/A	N/A
P28F001BX-B	SM48D	N/A	N/A
BIOS CHIP			
E28F002BC	SM40TB/SM56T (SM48D w/SCKT ADPT)	40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
PA28F002BC	SM44S (SM48D w/SCKT ADPT)	44PS-44D-A6-YAM	44-44-01S-6YAM
SmartVoltage			
Boot Block:			
PA28F800BV-T	SM44S	N/A	N/A

PA28F800BV-B	SM44S	N/A	N/A
E28F800CV-T	SM56T (SM48D w/SCKT ADPT)	48TS-44D-A6-WEL-S	48-44-01TS-6-WEL-S
E28F800CV-B	SM56T (SM48D w/SCKT ADPT)	48TS-44D-A6-WEL-S	48-44-01TS-6-WEL-S
E28F800CE-T	SM56T	N/A	N/A
E28F800CE-B	SM56T	N/A	N/A
E28F008BV-T	SM40TB/SM56T	N/A	N/A
E28F008BV-B	SM40TB/SM56T	N/A	N/A
E28F008BE-T	SM40TB/SM56T	N/A	N/A
E28F008BE-B	SM40TB/SM56T	N/A	N/A
E28F400BV-T	SM56T (SM48D w/SCKT ADPT)	56TS-44D-A6-YAM-S	56-44-01TS-6YAM-S
E28F400BV-B	SM56T (SM48D w/SCKT ADPT)	56TS-44D-A6-YAM-S	56-44-01TS-6YAM-S
E28F400CV-T	SM56T (SM48D w/SCKT ADPT)	48TS-44D-A6-WEL-S	48-44-01TS-6-WEL-S
E28F400CV-B	SM56T (SM48D w/SCKT ADPT)	48TS-44D-A6-WEL-S	48-44-01TS-6-WEL-S
E28F400CE-T	SM56T (SM48D w/SCKT ADPT)	48TS-44D-A6-WEL-S	48-40-01TS-6-WEL-S
E28F400CE-B	SM56T (SM48D w/SCKT ADPT)	48TS-44D-A6-WEL-S	48-40-01TS-6-WEL-S
PA28F400BV-T	SM44S (SM48D w/SCKT ADPT)	44PS-44D-A6-YAM	44-44-01S-6YAM
PA28F400BV-B	SM44S (SM48D w/SCKT ADPT)	44PS-44D-A6-YAM	44-44-01S-6YAM
E28F004BV-T	SM40TB/SM56T (SM48D w/SCKT ADPT)	40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
E28F004BV-B	SM40TB/SM56T (SM48D w/SCKT ADPT)	40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
E28F004BE-T	SM40TB/SM56T (SM48D w/SCKT ADPT)	40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
E28F004BE-B	SM40TB/SM56T (SM48D w/SCKT ADPT)	40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
E28F200BV-T	SM56T (SM48D w/SCKT ADPT)	56TS-44D-A6-YAM-S	56-44-01TS-6YAM-S
E28F200BV-B	SM56T (SM48D w/SCKT ADPT)	56TS-44D-A6-YAM-S	56-44-01TS-6YAM-S
E28F200CV-T	SM56T (SM48D w/SCKT ADPT)	48TS-44D-A6-WEL-S	48-44-01TS-6-WEL-S
E28F200CV-B	SM56T (SM48D w/SCKT ADPT)	48TS-44D-A6-WEL-S	48-44-01TS-6-WEL-S
PA28F200BV-T	SM44S (SM48D w/SCKT ADPT)	44PS-44D-A6-YAM	44-44-01S-6YAM
PA28F200BV-B	SM44S (SM48D w/SCKT ADPT)	44PS-44D-A6-YAM	44-44-01S-6YAM
E28F002BV-T	SM40TB/SM56T (SM48D w/SCKT ADPT)	40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S
E28F002BV-B	SM40TB/SM56T (SM48D w/SCKT ADPT)	40TS-40D-B6-YAM-S	40-40-02TS-6YAM-S

Bulk Erase:

E28F020	SM32TEA/SM40TB/SM56T (SM48D w/SCKT ADPT)	32TS-32D-A6-ENP-S	32-32-01TS-6YAM-S
F28F020	SM32TEA/SM40TB/SM56T (SM48D w/SCKT ADPT)	32TS-32D-A6-ENP-R	32-32-01TS-6YAM-R
N28F020	SM84UP/SM32P (SM48W/SCKT ADPT)	32PL-32D-A6-YAM	32-32-01P-6YAM
P28F020	SM48D	N/A	N/A
E28F010	SM32TEA/SM40TB/SM56T (SM48D w/SCKT ADPT)	32TS-32D-A6-ENP-S	32-32-01TS-6YAM-S
F28F010	SM32TEA/SM40TB/SM56T (SM48D w/SCKT ADPT)	32TS-32D-A6-ENP-R	32-32-01TS-6YAM-R
N28F010	SM84UP/SM32P (SM48W/SCKT ADPT)	32PL-32D-A6-YAM	32-32-01P-6YAM
P28F010	SM48D	N/A	N/A
N28F512	SM84UP/SM32P (SM48W/SCKT ADPT)	32PL-32D-A6-YAM	32-32-01P-6YAM
P28F512	SM48D	N/A	N/A
N28F256A	SM84UP/SM32P (SM48W/SCKT ADPT)	32PL-32D-A6-YAM	32-32-01P-6YAM
P28F256A	SM48D	N/A	N/A

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