



**To:** Licensees of Transaction Processing Facility Version 4

**Subject:** Program Number 5748-T14 — Release 1, Modification Level 00  
Features 5811, 5812, 5700

The material you have received is listed on the enclosed Packing List. Please review the Packing List to ensure you have received all items listed.

IBM Software Manufacturing Solutions.

Attached to this memorandum:

- Summary of Changes.
- List of Program Material.
- Installation Instructions.

Please refer to the attachment(s) for further description.

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## Summary of Changes

This memo is intended for the system programmer responsible for maintenance tape installation and maintenance. It contains information concerning the material and procedures associated with the installation of the maintenance tape for TPF 4.1. You should read all of it before installing the maintenance tape, and then keep it for future reference.

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### What Is on Program Update Tape (PUT) 19?

The following summarizes PUT 19 support:

- Continuous data collection (CDC)

The continuous data collection (CDC) performance tool (APAR PJ29925) is a TPF data collector/server application and a client application that combine to provide a real time TPF resource monitor. Vital system metrics are displayed, giving an overview of system state and performance. You can use the display as an early warning system, use the information gathered over time for future TPF capacity planning, or use several hours worth of information to help solve performance problems.

- DASD external copy services

APAR PJ29675 provides TPF command-level support for a subset of the Enterprise Storage Server (ESS) copy services functions. New TPF commands are provided to establish and control FlashCopy and peer-to-peer remote copy (PPRC) sessions. FlashCopy provides a point-in-time copy of devices in a single ESS. PPRC can copy from ESS-to-ESS in the same complex or to remote ESS devices in another complex over extended distances (XD mode). PPRC can maintain a continuous synchronous relationship between source and target devices or create a consistent copy of an entire complex.

- Tape support enhancements

APAR PJ29756 adds support for the following tape devices:

- IBM TotalStorage Enterprise Tape System 3590, including Models B, E, and H
- IBM TotalStorage Enterprise Tape Drive 3592.

3490 emulation is supported for the 3590 tape devices.

Commands that were updated for this support: ZDTAP (display only), ZTINT, ZTMNT, ZTLBL, and ZTSTB (display only).

- TCP/IP enhancements phase 2

TCP/IP enhancements include three APARs: PJ29600, PJ29638, and PJ29832.

- TCP read message API enhancements

Two new read message APIs (APAR PJ29600) were created to handle messages whose length field contains only the length of the data to follow the header, and does not include the length of the header itself.

- TCP delayed acknowledgment timer

APAR PJ29638 allows you to adjust, on a per-socket basis, how long the TPF system waits before sending a stand-alone ACK to acknowledge data on a TCP socket.

- TCP PSH flag

A new TCP\_PSH\_LAST option on the ioctl API (APAR PJ29832) allows an application to tell the TPF stack to set the PSH flag only in the last packet generated from a send type API call.

- Single source APARs

- APAR PJ29957 adds support for the time zone (TZ) environment variable.
- APAR PJ29974 adds an error trapping method for math functions.
- APAR PJ29980 adds support for the `tpf__fp_hton`, `tpf__fp_ntoh`, `tpf__fp_bton`, and `andtpf__fp_ntob` functions for floating point migration.

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## APARs Included on PUT 19

APAR PJ29709 (CE3PAT always points to the base version of CPAO during CPAO termination) is incomplete. The PJ29709.binary.tar.z file does not include "CISO40 and CTAL40" modules. If you install this APAR by itself (that is, you do not load the whole PUT), the CTAL and CISO code will be missing updates for the APARs listed below.

The following APARs were applied after PJ29709:

- CTAL: PJ29980, PJ29750, PJ29753, PJ29738, PJ29709.
- CISO: PJ29952, PJ29957, PJ29953, PJ29782, PJ29753, PJ29729, PJ29692, PJ29709.

To correct the stated problem, do one of the following:

- Load PUT 19 APARs PJ29738 (CTAL) and PJ29692 (CISO) to bring both CTAL and CISO up to date.
- Load PUT 19 APAR PJ29753.
- Load the entire PUT instead of selectively loading APAR PJ29709.

PJ28154	PJ28557	PJ28789	PJ28893
PJ28994	PJ29059	PJ29076	PJ29229
PJ29323	PJ29328	PJ29358	PJ29375
PJ29379	PJ29394	PJ29401	PJ29418
PJ29436	PJ29440	PJ29451	PJ29456
PJ29465	PJ29470	PJ29477	PJ29484
PJ29485	PJ29490	PJ29496	PJ29498
PJ29504	PJ29508	PJ29526	PJ29529
PJ29533	PJ29534	PJ29538	PJ29540
PJ29541	PJ29545	PJ29547	PJ29548
PJ29553	PJ29569	PJ29570	PJ29572
PJ29573	PJ29576	PJ29578	PJ29579

PJ29582	PJ29589	PJ29592	PJ29593
PJ29594	PJ29596	PJ29598	PJ29599
PJ29600	PJ29601	PJ29605	PJ29606
PJ29607	PJ29611	PJ29614	PJ29615
PJ29616	PJ29617	PJ29618	PJ29623
PJ29624	PJ29625	PJ29627	PJ29628
PJ29630	PJ29631	PJ29633	PJ29634
PJ29635	PJ29636	PJ29637	PJ29638
PJ29640	PJ29642	PJ29649	PJ29650
PJ29652	PJ29657	PJ29658	PJ29659
PJ29660	PJ29661	PJ29669	PJ29673
PJ29674	PJ29675	PJ29676	PJ29679
PJ29681	PJ29689	PJ29690	PJ29691
PJ29692	PJ29693	PJ29695	PJ29696
PJ29698	PJ29700	PJ29702	PJ29704
PJ29708	PJ29709	PJ29710	PJ29711
PJ29713	PJ29716	PJ29719	PJ29721
PJ29725	PJ29727	PJ29728	PJ29729
PJ29730	PJ29732	PJ29735	PJ29736
PJ29738	PJ29742	PJ29750	PJ29751
PJ29752	PJ29753	PJ29754	PJ29756
PJ29757	PJ29758	PJ29763	PJ29764
PJ29766	PJ29767	PJ29768	PJ29770
PJ29776	PJ29779	PJ29781	PJ29782
PJ29784	PJ29785	PJ29786	PJ29788
PJ29789	PJ29790	PJ29792	PJ29793
PJ29794	PJ29795	PJ29796	PJ29798
PJ29801	PJ29803	PJ29804	PJ29807
PJ29808	PJ29809	PJ29811	PJ29817
PJ29818	PJ29819	PJ29820	PJ29822
PJ29823	PJ29826	PJ29828	PJ29829
PJ29830	PJ29832	PJ29833	PJ29834
PJ29839	PJ29844	PJ29847	PJ29848
PJ29849	PJ29850	PJ29851	PJ29855
PJ29856	PJ29858	PJ29863	PJ29864
PJ29865	PJ29867	PJ29870	PJ29871
PJ29874	PJ29876	PJ29881	PJ29884
PJ29888	PJ29889	PJ29890	PJ29891
PJ29895	PJ29897	PJ29900	PJ29902
PJ29905	PJ29909	PJ29911	PJ29912
PJ29915	PJ29917	PJ29918	PJ29919
PJ29920	PJ29921	PJ29925	PJ29926
PJ29928	PJ29929	PJ29930	PJ29931
PJ29933	PJ29935	PJ29936	PJ29937
PJ29939	PJ29940	PJ29941	PJ29944
PJ29945	PJ29946	PJ29947	PJ29948
PJ29949	PJ29950	PJ29952	PJ29953

PJ29955	PJ29957	PJ29958	PJ29961
PJ29962	PJ29967	PJ29968	PJ29969
PJ29974	PJ29975	PJ29977	PJ29978
PJ29979	PJ29980	PJ29981	PJ29982
PJ29984	PJ29985	PJ29987	PJ29988
PJ29990	PJ29995	PJ29996	PJ29997
PJ29999	PJ30003	PJ30004	PJ30006
PJ30007	PJ30010	PJ30013	PJ30014
PJ30015	PJ30018	PJ30022	PJ30023
PJ30024	PJ30027	PJ30028	PJ30030
PJ30031	PJ30036	PJ30040	PJ30041
PJ30043	PJ30044	PJ30047	PJ30048
PJ30049	PJ30054	PJ30055	PJ30056
PJ30059	PJ30060	PJ30061	PJ30064
PJ30066	PJ30067	PJ30069	PJ30071
PJ30072	PJ30078	PJ30079	PJ30081
PJ30084	PJ30085	PJ30086	PJ30088
PJ30089	PJ30091	PJ30092	PJ30093
PJ30097	PJ30100	PJ30103	PJ30109
PJ30110	PJ30113	PJ30114	PJ30115
PJ30116	PJ30118	PJ30122	PJ30124
PJ30125	PJ30126	PJ30127	PJ30132
PJ30134	PJ30136	PJ30137	PJ30139
PJ30142	PJ30143	PJ30144	PJ30145
PJ30147	PJ30149	PJ30151	PJ30153
PJ30158	PJ30159	PJ30161	PJ30162
PJ30167	PJ30169	PJ30172	PJ30177
PJ30178	PJ30182	PJ30183	PJ30184
PJ30186	PJ30187	PJ30189	PJ30202
PJ30209	PJ30211	PJ30212	PJ30223

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## List of Program Material

An IBM program is identified by a program number and a feature code. The program number of TPF 4.1 is 5748-T14.

The program announcement material describes the features provided by TPF 4.1. Ask your IBM marketing representative for this information if you have not already received a copy.

The following sections identify the basic and optional program materials available with this program.

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### Basic Machine-Readable Material

The distribution medium for this maintenance tape is 9-track magnetic tape (written at 6250 BPI), 3480 cartridge, or 4 MM tape. The tapes or cartridge contains all the programs and data needed for installation. TPF 4.1 is installed using the MVS/ESA or OS/390 operating system. See "Installation Instructions" on page 39 for more information about how to install this maintenance tape. Table 1 on page 8 describes the tape or cartridge.

See the following tables for the description of the file contents in the respective program tape or cartridge:

- Program Tape 1, Table 2 on page 9
- Program Tape 2, Table 3 on page 10
- Program Tape 3, Table 4 on page 11
- Program Tape 4, Table 5 on page 11
- Program Tape 5, Table 6 on page 12
- Program Tape 6, Table 7 on page 16
- Program Tape 7, Table 8 on page 24
- Program Tape 8, Table 9 on page 30
- Program Tape 9, Table 10 on page 36
- Program Tape 10, Table 11 on page 37
- Program Tape 11, Table 12 on page 37

Table 1 (Page 1 of 2). PUT 19 Base Tapes

Medium	Feature Number	Physical Volume	External Label Identification	Description
9 Track/6250 BPI	5811	1	5748-T14-E-1A19	Source Code for PUT 19
		2	5748-T14-E-1B19	Source Code for PUT 19
		3	5748-T14-E-1C19	Source Code for PUT 19
		4	5748-T14-E-1D19	Source Code for PUT 19
		5	5748-T14-E-1E19	Source Code for PUT 19
		6	5748-T14-E-1F19	Source Code for PUT 19
		7	5748-T14-E-1G19	Source Code for PUT 19
		8	5748-T14-E-1H19	Source Code for PUT 19
		9	5748-T14-E-1I19	Source Code for PUT 19
		10	5748-T14-E-1J19	Source Code for PUT 19
		11	5748-T14-E-1K19	Source Code for PUT 19
3480 Cartridge	5812	1	5748-T14-E-1A19	Source Code for PUT 19
		2	5748-T14-E-1B19	Source Code for PUT 19
		3	5748-T14-E-1C19	Source Code for PUT 19
		4	5748-T14-E-1D19	Source Code for PUT 19
		5	5748-T14-E-1E19	Source Code for PUT 19
		6	5748-T14-E-1F19	Source Code for PUT 19
		7	5748-T14-E-1G19	Source Code for PUT 19
		8	5748-T14-E-1H19	Source Code for PUT 19
		9	5748-T14-E-1I19	Source Code for PUT 19
		10	5748-T14-E-1J19	Source Code for PUT 19
		11	5748-T14-E-1K19	Source Code for PUT 19

Table 1 (Page 2 of 2). PUT 19 Base Tapes

Medium	Feature Number	Physical Volume	External Label Identification	Description
4 MM Tape	5700	1	5748-T14-E-1A19	Source Code for PUT 19
		2	5748-T14-E-1B19	Source Code for PUT 19
		3	5748-T14-E-1C19	Source Code for PUT 19
		4	5748-T14-E-1D19	Source Code for PUT 19
		5	5748-T14-E-1E19	Source Code for PUT 19
		6	5748-T14-E-1F19	Source Code for PUT 19
		7	5748-T14-E-1G19	Source Code for PUT 19
		8	5748-T14-E-1H19	Source Code for PUT 19
		9	5748-T14-E-1I19	Source Code for PUT 19
		10	5748-T14-E-1J19	Source Code for PUT 19
		11	5748-T14-E-1K19	Source Code for PUT 19

Table 2 (Page 1 of 2). Program Tape 1: File Content

File Number	Name	Description	Format	BLK SIZE
1	NA	Contains all PUT 19 APAR responses.	IEBGENER	12,100
2	NA	Contains all PUT 19 APAR abstracts.	IEBGENER	800
3	NA	Contains a list of closed APARs, segments and data sets for source shippable code.	IEBGENER	800
4	NA	Contains a list of PUT 19 APARs in closed order.	IEBGENER	800
5	NA	Contains Licensed Program Specifications - additional supplemental terms for excluded components and third party code.	IEBGENER	800
6	TPF.PUT19.SOURCE.ASCII.TAR.Z	Contains HFS format full source replacements for all TPF code at PUT 19	IEBGENER	27,920

<i>Table 2 (Page 2 of 2). Program Tape 1: File Content</i>				
<b>File Number</b>	<b>Name</b>	<b>Description</b>	<b>Format</b>	<b>BLK SIZE</b>
7	TPF.PUT19.BINARY.TAR.Z	Contains HFS format objects,load modules and stubs for PUT 19	IEBGENER	27,920
8	TPF.ASCL.SOURCE.ASCII.TAR.Z	Contains HFS format full source for the IBM Application Support Class Library	IEBGENER	27,920
9	TPF.DEBUG.SOURCE.ASCII.TAR.Z	Contains HFS format full source for Expression Evaluator for TPF Debuggers	IEBGENER	27,920
10	TPF.TPFMAIL.SOURCE.ASCII.TAR.Z	Contains HFS format full source for TPF Internet Mail Server.	IEBGENER	27,920
11	TPF.OPENSLL.SOURCE.ASCII.TAR.Z	Contains HFS format full source for Secure Socket Layer	IEBGENER	27,920
12	TPF.XML4C351.SOURCE.TAR.Z	Contains HFS format full source for the Extensible Markup Language Library	IEBGENER	27,920
13	TPF.SOAP.SOURCE.TAR.Z	Contains HFS format full source for TPF SOAP 1.2 Server Support.	IEBGENER	27,920
14	TPF.CDEC.SOURCE.TAR.Z	Contains HFS format full source for CDEC-Packed Decimal Arithmetic Support	IEBGENER	27,920

<i>Table 3. Program Tape 2: File Content</i>				
<b>File Number</b>	<b>Name</b>	<b>Description</b>	<b>Format</b>	<b>BLK SIZE</b>
1	ACP.SRCE.RT.REL40	Contains replacements to all real-time programs.	IEBCOPY	12,000
2	ACP.SRCE.CP.REL40	Contains replacements to the copy programs.	IEBCOPY	12,000

<b>File Number</b>	<b>Name</b>	<b>Description</b>	<b>Format</b>	<b>BLK SIZE</b>
1	ACP.MACRO.REL40	Contains replacements to the assembler macros.	IEBCOPY	12,000
2	ACP.SIPGEN.REL40	Contains replacements to the SIP macros.	IEBCOPY	12,000
3	ACP.SALIN.REL40	Contains replacements to the program allocator list (PAL) programs.	IEBCOPY	12,000
4	ACP.CHDR.REL40	Contains replacements to the C header programs.	IEBCOPY	12,000
5	ACP.CSRCE.RT.REL40	Contains replacements to the C real-time programs.	IEBCOPY	12,000
6	ACP.CSRCE.OL.REL40	Contains replacements to the C offline programs.	IEBCOPY	12,000
7	ACP.CLIB.REL40	Contains library function call stub objects.	IEBCOPY	12,000
8	ACP.STUB.REL40	Contains DLM call stub objects.	IEBCOPY	12,000
9	ACP.IMPORTS.REL40	Contains Functions and variables exported by DLLs.	IEBCOPY	12,000
10	ACP.SAMPLIB.REL40	Contains sample programs, provided "as is" without warranty of any kind.	IEBCOPY	12,000
11	ACP.CHDR.REL40.INL	Contains replacements to the C header programs for Application Support Class Library.	IEBCOPY	12,000
12	ACP.CHDR.OPENSRC.REL40	Contains replacements to the OPEN source C headers.	IEBCOPY	12,000
13	ACP.CHDR.TPF.REL40	Contains replacements to the wrapper C headers.	IEBCOPY	12,000
14	ACP.SRCE.OL.REL40	Contains replacements to the offline programs.	IEBCOPY	12,000

<b>File Number</b>	<b>Name</b>	<b>Description</b>	<b>Format</b>	<b>BLK SIZE</b>
1	ACP.LINK.REL40	Contains all links.	IEBCOPY	12,000
2	ACP.OBJ.REL40	Contains replacements to all the object shippable code.	IEBCOPY	12,000

<i>Table 5 (Page 2 of 2). Program Tape 4: File Content</i>				
<b>File Number</b>	<b>Name</b>	<b>Description</b>	<b>Format</b>	<b>BLK SIZE</b>
3	ACP.OBJ.OCO	Contains all objects for non-shippable code.	IEBCOPY	12,000

<i>Table 6 (Page 1 of 5). Program Tape 5: File Content</i>				
<b>File Number</b>	<b>Name</b>	<b>Description</b>	<b>Format</b>	<b>BLK SIZE</b>
1	TPF.PUT19.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
2	TPF.PUT19.CHDR.INL	Full Segment Replacements for PUT 19	IEBCOPY	12,000
3	TPF.PUT19.CHDR.TPF	Full Segment Replacements for PUT 19	IEBCOPY	12,000
4	TPF.PUT19.CSRCE.OL	Full Segment Replacements for PUT 19	IEBCOPY	12,000
5	TPF.PUT19.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
6	TPF.PUT19.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
7	TPF.PUT19.SALIN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
8	TPF.PUT19.SIPGEN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
9	TPF.PUT19.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
10	TPF.PUT19.SRCE.OL	Full Segment Replacements for PUT 19	IEBCOPY	12,000
11	TPF.PUT19.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
12	TPF.PJ28154.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
13	TPF.PJ28154.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
14	TPF.PJ28154.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
15	TPF.PJ28154.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
16	TPF.PJ28154.SRCE.OL	Full Segment Replacements for PUT 19	IEBCOPY	12,000
17	TPF.PJ28154.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
18	TPF.PJ28557.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
19	TPF.PJ28557.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
20	TPF.PJ28557.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
21	TPF.PJ28557.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
22	TPF.PJ28789.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
23	TPF.PJ28789.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
24	TPF.PJ28789.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
25	TPF.PJ28789.SALIN	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 6 (Page 2 of 5). Program Tape 5: File Content

File Number	Name	Description	Format	BLK SIZE
26	TPF.PJ28789.SIPGEN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
27	TPF.PJ28789.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
28	TPF.PJ28789.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
29	TPF.PJ28893.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
30	TPF.PJ28994.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
31	TPF.PJ28994.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
32	TPF.PJ28994.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
33	TPF.PJ28994.MODULES.OCO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
34	TPF.PJ29059.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
35	TPF.PJ29059.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
36	TPF.PJ29059.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
37	TPF.PJ29059.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
38	TPF.PJ29076.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
39	TPF.PJ29076.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
40	TPF.PJ29076.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
41	TPF.PJ29076.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
42	TPF.PJ29229.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
43	TPF.PJ29229.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
44	TPF.PJ29229.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
45	TPF.PJ29229.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
46	TPF.PJ29229.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
47	TPF.PJ29323.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
48	TPF.PJ29328.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
49	TPF.PJ29328.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
50	TPF.PJ29358.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
51	TPF.PJ29358.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
52	TPF.PJ29358.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
53	TPF.PJ29375.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
54	TPF.PJ29379.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
55	TPF.PJ29394.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
56	TPF.PJ29394.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 6 (Page 3 of 5). Program Tape 5: File Content

<b>File Number</b>	<b>Name</b>	<b>Description</b>	<b>Format</b>	<b>BLK SIZE</b>
57	TPF.PJ29401.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
58	TPF.PJ29418.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
59	TPF.PJ29418.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
60	TPF.PJ29418.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
61	TPF.PJ29436.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
62	TPF.PJ29440.MODULES.OCO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
63	TPF.PJ29451.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
64	TPF.PJ29456.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
65	TPF.PJ29465.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
66	TPF.PJ29465.CSRCE.OL	Full Segment Replacements for PUT 19	IEBCOPY	12,000
67	TPF.PJ29465.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
68	TPF.PJ29465.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
69	TPF.PJ29465.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
70	TPF.PJ29470.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
71	TPF.PJ29470.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
72	TPF.PJ29477.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
73	TPF.PJ29477.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
74	TPF.PJ29477.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
75	TPF.PJ29477.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
76	TPF.PJ29484.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
77	TPF.PJ29485.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
78	TPF.PJ29490.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
79	TPF.PJ29490.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
80	TPF.PJ29490.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
81	TPF.PJ29490.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
82	TPF.PJ29490.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
83	TPF.PJ29490.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
84	TPF.PJ29496.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
85	TPF.PJ29496.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
86	TPF.PJ29496.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
87	TPF.PJ29498.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 6 (Page 4 of 5). Program Tape 5: File Content

<b>File Number</b>	<b>Name</b>	<b>Description</b>	<b>Format</b>	<b>BLK SIZE</b>
88	TPF.PJ29504.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
89	TPF.PJ29504.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
90	TPF.PJ29504.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
91	TPF.PJ29504.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
92	TPF.PJ29504.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
93	TPF.PJ29508.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
94	TPF.PJ29526.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
95	TPF.PJ29529.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
96	TPF.PJ29533.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
97	TPF.PJ29534.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
98	TPF.PJ29538.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
99	TPF.PJ29540.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
100	TPF.PJ29541.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
101	TPF.PJ29541.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
102	TPF.PJ29541.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
103	TPF.PJ29545.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
104	TPF.PJ29547.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
105	TPF.PJ29547.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
106	TPF.PJ29548.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
107	TPF.PJ29553.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
108	TPF.PJ29569.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
109	TPF.PJ29569.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
110	TPF.PJ29569.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
111	TPF.PJ29570.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
112	TPF.PJ29572.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
113	TPF.PJ29573.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
114	TPF.PJ29573.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
115	TPF.PJ29573.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
116	TPF.PJ29573.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
117	TPF.PJ29576.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
118	TPF.PJ29576.MODULES.OCO	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 6 (Page 5 of 5). Program Tape 5: File Content

File Number	Name	Description	Format	BLK SIZE
119	TPF.PJ29576.SALIN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
120	TPF.PJ29576.SIPGEN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
121	TPF.PJ29578.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
122	TPF.PJ29578.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
123	TPF.PJ29579.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
124	TPF.PJ29582.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
125	TPF.PJ29582.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
126	TPF.PJ29582.SALIN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
127	TPF.PJ29582.SIPGEN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
128	TPF.PJ29582.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
129	TPF.PJ29589.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
130	TPF.PJ29592.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
131	TPF.PJ29592.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
132	TPF.PJ29592.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
133	TPF.PJ29592.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
134	TPF.PJ29592.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
135	TPF.PJ29593.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
136	TPF.PJ29593.CHDR.TPF	Full Segment Replacements for PUT 19	IEBCOPY	12,000
137	TPF.PJ29593.SIPGEN	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 7 (Page 1 of 9). Program Tape 6: File Content

File Number	Name	Description	Format	BLK SIZE
1	TPF.PJ29594.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
2	TPF.PJ29594.MODULES.OCO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
3	TPF.PJ29596.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
4	TPF.PJ29596.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
5	TPF.PJ29598.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
6	TPF.PJ29599.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
7	TPF.PJ29600.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
8	TPF.PJ29600.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 7 (Page 2 of 9). Program Tape 6: File Content

File Number	Name	Description	Format	BLK SIZE
9	TPF.PJ29600.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
10	TPF.PJ29600.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
11	TPF.PJ29600.SALIN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
12	TPF.PJ29600.SIPGEN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
13	TPF.PJ29600.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
14	TPF.PJ29600.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
15	TPF.PJ29601.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
16	TPF.PJ29601.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
17	TPF.PJ29605.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
18	TPF.PJ29606.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
19	TPF.PJ29607.SRCE.OL	Full Segment Replacements for PUT 19	IEBCOPY	12,000
20	TPF.PJ29611.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
21	TPF.PJ29614.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
22	TPF.PJ29615.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
23	TPF.PJ29615.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
24	TPF.PJ29615.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
25	TPF.PJ29616.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
26	TPF.PJ29617.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
27	TPF.PJ29618.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
28	TPF.PJ29623.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
29	TPF.PJ29624.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
30	TPF.PJ29624.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
31	TPF.PJ29624.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
32	TPF.PJ29625.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
33	TPF.PJ29625.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
34	TPF.PJ29627.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
35	TPF.PJ29628.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
36	TPF.PJ29630.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
37	TPF.PJ29631.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
38	TPF.PJ29631.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
39	TPF.PJ29632.MODULES.OCO	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 7 (Page 3 of 9). Program Tape 6: File Content

<b>File Number</b>	<b>Name</b>	<b>Description</b>	<b>Format</b>	<b>BLK SIZE</b>
40	TPF.PJ29633.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
41	TPF.PJ29634.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
42	TPF.PJ29635.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
43	TPF.PJ29636.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
44	TPF.PJ29636.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
45	TPF.PJ29636.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
46	TPF.PJ29637.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
47	TPF.PJ29638.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
48	TPF.PJ29638.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
49	TPF.PJ29638.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
50	TPF.PJ29638.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
51	TPF.PJ29638.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
52	TPF.PJ29638.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
53	TPF.PJ29640.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
54	TPF.PJ29642.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
55	TPF.PJ29649.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
56	TPF.PJ29650.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
57	TPF.PJ29652.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
58	TPF.PJ29657.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
59	TPF.PJ29657.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
60	TPF.PJ29658.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
61	TPF.PJ29658.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
62	TPF.PJ29658.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
63	TPF.PJ29659.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
64	TPF.PJ29659.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
65	TPF.PJ29660.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
66	TPF.PJ29660.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
67	TPF.PJ29660.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
68	TPF.PJ29661.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
69	TPF.PJ29669.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
70	TPF.PJ29673.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 7 (Page 4 of 9). Program Tape 6: File Content

<b>File Number</b>	<b>Name</b>	<b>Description</b>	<b>Format</b>	<b>BLK SIZE</b>
71	TPF.PJ29673.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
72	TPF.PJ29673.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
73	TPF.PJ29674.SRCE.OL	Full Segment Replacements for PUT 19	IEBCOPY	12,000
74	TPF.PJ29675.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
75	TPF.PJ29675.CSRCE.OL	Full Segment Replacements for PUT 19	IEBCOPY	12,000
76	TPF.PJ29675.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
77	TPF.PJ29675.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
78	TPF.PJ29675.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
79	TPF.PJ29675.SALIN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
80	TPF.PJ29675.SIPGEN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
81	TPF.PJ29675.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
82	TPF.PJ29675.SRCE.OL	Full Segment Replacements for PUT 19	IEBCOPY	12,000
83	TPF.PJ29675.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
84	TPF.PJ29676.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
85	TPF.PJ29679.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
86	TPF.PJ29679.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
87	TPF.PJ29681.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
88	TPF.PJ29681.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
89	TPF.PJ29689.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
90	TPF.PJ29690.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
91	TPF.PJ29691.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
92	TPF.PJ29692.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
93	TPF.PJ29692.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
94	TPF.PJ29692.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
95	TPF.PJ29693.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
96	TPF.PJ29695.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
97	TPF.PJ29696.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
98	TPF.PJ29698.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
99	TPF.PJ29698.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
100	TPF.PJ29700.SIPGEN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
101	TPF.PJ29702.SRCE.OL	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 7 (Page 5 of 9). Program Tape 6: File Content

<b>File Number</b>	<b>Name</b>	<b>Description</b>	<b>Format</b>	<b>BLK SIZE</b>
102	TPF.PJ29704.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
103	TPF.PJ29708.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
104	TPF.PJ29709.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
105	TPF.PJ29709.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
106	TPF.PJ29709.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
107	TPF.PJ29709.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
108	TPF.PJ29710.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
109	TPF.PJ29710.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
110	TPF.PJ29710.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
111	TPF.PJ29710.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
112	TPF.PJ29711.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
113	TPF.PJ29713.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
114	TPF.PJ29713.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
115	TPF.PJ29713.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
116	TPF.PJ29716.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
117	TPF.PJ29719.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
118	TPF.PJ29721.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
119	TPF.PJ29725.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
120	TPF.PJ29727.CSRCE.OL	Full Segment Replacements for PUT 19	IEBCOPY	12,000
121	TPF.PJ29728.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
122	TPF.PJ29729.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
123	TPF.PJ29729.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
124	TPF.PJ29729.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
125	TPF.PJ29730.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
126	TPF.PJ29732.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
127	TPF.PJ29735.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
128	TPF.PJ29736.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
129	TPF.PJ29738.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
130	TPF.PJ29738.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
131	TPF.PJ29738.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
132	TPF.PJ29742.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 7 (Page 6 of 9). Program Tape 6: File Content

File Number	Name	Description	Format	BLK SIZE
133	TPF.PJ29750.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
134	TPF.PJ29750.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
135	TPF.PJ29750.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
136	TPF.PJ29750.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
137	TPF.PJ29751.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
138	TPF.PJ29752.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
139	TPF.PJ29753.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
140	TPF.PJ29753.MODULES.OCO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
141	TPF.PJ29753.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
142	TPF.PJ29754.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
143	TPF.PJ29754.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
144	TPF.PJ29754.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
145	TPF.PJ29755.MODULES.OCO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
146	TPF.PJ29756.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
147	TPF.PJ29756.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
148	TPF.PJ29756.SALIN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
149	TPF.PJ29756.SIPGEN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
150	TPF.PJ29756.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
151	TPF.PJ29756.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
152	TPF.PJ29757.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
153	TPF.PJ29757.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
154	TPF.PJ29758.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
155	TPF.PJ29758.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
156	TPF.PJ29763.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
157	TPF.PJ29764.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
158	TPF.PJ29766.SRCE.OL	Full Segment Replacements for PUT 19	IEBCOPY	12,000
159	TPF.PJ29767.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
160	TPF.PJ29768.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
161	TPF.PJ29770.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
162	TPF.PJ29776.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
163	TPF.PJ29776.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 7 (Page 7 of 9). Program Tape 6: File Content

<b>File Number</b>	<b>Name</b>	<b>Description</b>	<b>Format</b>	<b>BLK SIZE</b>
164	TPF.PJ29776.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
165	TPF.PJ29776.SIPGEN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
166	TPF.PJ29776.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
167	TPF.PJ29776.SRCE.OL	Full Segment Replacements for PUT 19	IEBCOPY	12,000
168	TPF.PJ29776.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
169	TPF.PJ29779.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
170	TPF.PJ29779.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
171	TPF.PJ29779.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
172	TPF.PJ29780.MODULES.OCO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
173	TPF.PJ29781.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
174	TPF.PJ29782.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
175	TPF.PJ29782.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
176	TPF.PJ29782.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
177	TPF.PJ29782.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
178	TPF.PJ29782.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
179	TPF.PJ29784.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
180	TPF.PJ29784.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
181	TPF.PJ29784.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
182	TPF.PJ29784.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
183	TPF.PJ29785.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
184	TPF.PJ29785.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
185	TPF.PJ29785.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
186	TPF.PJ29786.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
187	TPF.PJ29786.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
188	TPF.PJ29788.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
189	TPF.PJ29788.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
190	TPF.PJ29788.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
191	TPF.PJ29789.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
192	TPF.PJ29789.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
193	TPF.PJ29789.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
194	TPF.PJ29789.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 7 (Page 8 of 9). Program Tape 6: File Content

File Number	Name	Description	Format	BLK SIZE
195	TPF.PJ29790.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
196	TPF.PJ29792.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
197	TPF.PJ29793.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
198	TPF.PJ29794.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
199	TPF.PJ29795.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
200	TPF.PJ29795.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
201	TPF.PJ29795.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
202	TPF.PJ29796.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
203	TPF.PJ29796.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
204	TPF.PJ29796.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
205	TPF.PJ29798.SIPGEN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
206	TPF.PJ29801.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
207	TPF.PJ29803.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
208	TPF.PJ29804.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
209	TPF.PJ29804.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
210	TPF.PJ29807.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
211	TPF.PJ29808.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
212	TPF.PJ29809.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
213	TPF.PJ29809.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
214	TPF.PJ29809.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
215	TPF.PJ29811.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
216	TPF.PJ29811.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
217	TPF.PJ29811.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
218	TPF.PJ29817.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
219	TPF.PJ29817.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
220	TPF.PJ29817.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
221	TPF.PJ29817.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
222	TPF.PJ29817.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
223	TPF.PJ29817.SALIN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
224	TPF.PJ29817.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
225	TPF.PJ29818.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 7 (Page 9 of 9). Program Tape 6: File Content

File Number	Name	Description	Format	BLK SIZE
226	TPF.PJ29819.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
227	TPF.PJ29819.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
228	TPF.PJ29819.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
229	TPF.PJ29820.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
230	TPF.PJ29822.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
231	TPF.PJ29822.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
232	TPF.PJ29823.SALIN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
233	TPF.PJ29823.SIPGEN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
234	TPF.PJ29826.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
235	TPF.PJ29828.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
236	TPF.PJ29828.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
237	TPF.PJ29829.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 8 (Page 1 of 7). Program Tape 7: File Content

File Number	Name	Description	Format	BLK SIZE
1	TPF.PJ29829.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
2	TPF.PJ29830.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
3	TPF.PJ29830.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
4	TPF.PJ29830.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
5	TPF.PJ29832.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
6	TPF.PJ29832.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
7	TPF.PJ29832.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
8	TPF.PJ29832.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
9	TPF.PJ29833.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
10	TPF.PJ29833.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
11	TPF.PJ29833.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
12	TPF.PJ29833.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
13	TPF.PJ29833.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
14	TPF.PJ29833.SRCE.OL	Full Segment Replacements for PUT 19	IEBCOPY	12,000
15	TPF.PJ29834.SRCE.OL	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 8 (Page 2 of 7). Program Tape 7: File Content

File Number	Name	Description	Format	BLK SIZE
16	TPF.PJ29839.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
17	TPF.PJ29844.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
18	TPF.PJ29844.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
19	TPF.PJ29847.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
20	TPF.PJ29847.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
21	TPF.PJ29847.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
22	TPF.PJ29847.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
23	TPF.PJ29848.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
24	TPF.PJ29848.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
25	TPF.PJ29848.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
26	TPF.PJ29849.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
27	TPF.PJ29849.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
28	TPF.PJ29849.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
29	TPF.PJ29850.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
30	TPF.PJ29850.SALIN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
31	TPF.PJ29850.SIPGEN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
32	TPF.PJ29851.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
33	TPF.PJ29855.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
34	TPF.PJ29855.SRCE.OL	Full Segment Replacements for PUT 19	IEBCOPY	12,000
35	TPF.PJ29856.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
36	TPF.PJ29856.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
37	TPF.PJ29856.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
38	TPF.PJ29858.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
39	TPF.PJ29858.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
40	TPF.PJ29863.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
41	TPF.PJ29864.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
42	TPF.PJ29865.SIPGEN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
43	TPF.PJ29867.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
44	TPF.PJ29870.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
45	TPF.PJ29870.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
46	TPF.PJ29871.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 8 (Page 3 of 7). Program Tape 7: File Content

<b>File Number</b>	<b>Name</b>	<b>Description</b>	<b>Format</b>	<b>BLK SIZE</b>
47	TPF.PJ29871.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
48	TPF.PJ29871.MODULES.OCO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
49	TPF.PJ29874.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
50	TPF.PJ29876.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
51	TPF.PJ29876.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
52	TPF.PJ29876.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
53	TPF.PJ29876.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
54	TPF.PJ29876.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
55	TPF.PJ29881.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
56	TPF.PJ29881.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
57	TPF.PJ29883.MODULES.OCO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
58	TPF.PJ29884.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
59	TPF.PJ29884.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
60	TPF.PJ29884.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
61	TPF.PJ29884.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
62	TPF.PJ29884.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
63	TPF.PJ29888.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
64	TPF.PJ29889.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
65	TPF.PJ29890.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
66	TPF.PJ29891.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
67	TPF.PJ29891.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
68	TPF.PJ29891.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
69	TPF.PJ29895.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
70	TPF.PJ29895.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
71	TPF.PJ29895.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
72	TPF.PJ29897.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
73	TPF.PJ29900.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
74	TPF.PJ29901.MODULES.OCO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
75	TPF.PJ29902.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
76	TPF.PJ29905.SIPGEN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
77	TPF.PJ29906.MODULES.OCO	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 8 (Page 4 of 7). Program Tape 7: File Content

File Number	Name	Description	Format	BLK SIZE
78	TPF.PJ29909.CSRCE.OL	Full Segment Replacements for PUT 19	IEBCOPY	12,000
79	TPF.PJ29911.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
80	TPF.PJ29911.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
81	TPF.PJ29912.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
82	TPF.PJ29915.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
83	TPF.PJ29917.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
84	TPF.PJ29917.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
85	TPF.PJ29917.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
86	TPF.PJ29918.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
87	TPF.PJ29918.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
88	TPF.PJ29918.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
89	TPF.PJ29919.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
90	TPF.PJ29919.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
91	TPF.PJ29920.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
92	TPF.PJ29920.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
93	TPF.PJ29920.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
94	TPF.PJ29920.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
95	TPF.PJ29920.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
96	TPF.PJ29921.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
97	TPF.PJ29921.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
98	TPF.PJ29921.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
99	TPF.PJ29921.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
100	TPF.PJ29921.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
101	TPF.PJ29925.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
102	TPF.PJ29925.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
103	TPF.PJ29925.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
104	TPF.PJ29925.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
105	TPF.PJ29925.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
106	TPF.PJ29925.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
107	TPF.PJ29925.SALIN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
108	TPF.PJ29925.SIPGEN	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 8 (Page 5 of 7). Program Tape 7: File Content

<b>File Number</b>	<b>Name</b>	<b>Description</b>	<b>Format</b>	<b>BLK SIZE</b>
109	TPF.PJ29925.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
110	TPF.PJ29925.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
111	TPF.PJ29926.SIPGEN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
112	TPF.PJ29928.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
113	TPF.PJ29929.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
114	TPF.PJ29930.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
115	TPF.PJ29930.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
116	TPF.PJ29931.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
117	TPF.PJ29933.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
118	TPF.PJ29935.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
119	TPF.PJ29935.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
120	TPF.PJ29935.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
121	TPF.PJ29935.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
122	TPF.PJ29936.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
123	TPF.PJ29937.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
124	TPF.PJ29939.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
125	TPF.PJ29940.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
126	TPF.PJ29940.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
127	TPF.PJ29941.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
128	TPF.PJ29944.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
129	TPF.PJ29945.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
130	TPF.PJ29945.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
131	TPF.PJ29946.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
132	TPF.PJ29947.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
133	TPF.PJ29948.CSRCE.OL	Full Segment Replacements for PUT 19	IEBCOPY	12,000
134	TPF.PJ29948.SRCE.OL	Full Segment Replacements for PUT 19	IEBCOPY	12,000
135	TPF.PJ29949.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
136	TPF.PJ29950.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
137	TPF.PJ29952.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
138	TPF.PJ29952.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
139	TPF.PJ29952.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 8 (Page 6 of 7). Program Tape 7: File Content

<b>File Number</b>	<b>Name</b>	<b>Description</b>	<b>Format</b>	<b>BLK SIZE</b>
140	TPF.PJ29952.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
141	TPF.PJ29952.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
142	TPF.PJ29953.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
143	TPF.PJ29953.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
144	TPF.PJ29955.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
145	TPF.PJ29955.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
146	TPF.PJ29955.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
147	TPF.PJ29957.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
148	TPF.PJ29957.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
149	TPF.PJ29957.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
150	TPF.PJ29958.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
151	TPF.PJ29960.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
152	TPF.PJ29960.MODULES.OCO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
153	TPF.PJ29961.SRCE.OL	Full Segment Replacements for PUT 19	IEBCOPY	12,000
154	TPF.PJ29962.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
155	TPF.PJ29962.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
156	TPF.PJ29962.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
157	TPF.PJ29967.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
158	TPF.PJ29967.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
159	TPF.PJ29967.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
160	TPF.PJ29967.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
161	TPF.PJ29967.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
162	TPF.PJ29968.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
163	TPF.PJ29968.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
164	TPF.PJ29968.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
165	TPF.PJ29969.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
166	TPF.PJ29974.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
167	TPF.PJ29975.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
168	TPF.PJ29977.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
169	TPF.PJ29978.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
170	TPF.PJ29978.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 8 (Page 7 of 7). Program Tape 7: File Content

<b>File Number</b>	<b>Name</b>	<b>Description</b>	<b>Format</b>	<b>BLK SIZE</b>
171	TPF.PJ29978.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
172	TPF.PJ29978.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
173	TPF.PJ29979.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
174	TPF.PJ29979.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
175	TPF.PJ29979.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
176	TPF.PJ29980.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
177	TPF.PJ29980.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
178	TPF.PJ29980.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
179	TPF.PJ29981.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
180	TPF.PJ29981.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
181	TPF.PJ29981.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
182	TPF.PJ29981.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
183	TPF.PJ29982.MODULES.OCO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
184	TPF.PJ29984.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
185	TPF.PJ29985.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
186	TPF.PJ29987.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
187	TPF.PJ29988.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 9 (Page 1 of 7). Program Tape 8: File Content

<b>File Number</b>	<b>Name</b>	<b>Description</b>	<b>Format</b>	<b>BLK SIZE</b>
1	TPF.PJ29990.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
2	TPF.PJ29995.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
3	TPF.PJ29995.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
4	TPF.PJ29995.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
5	TPF.PJ29996.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
6	TPF.PJ29997.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
7	TPF.PJ29997.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
8	TPF.PJ29997.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
9	TPF.PJ29999.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
10	TPF.PJ29999.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 9 (Page 2 of 7). Program Tape 8: File Content

File Number	Name	Description	Format	BLK SIZE
11	TPF.PJ30003.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
12	TPF.PJ30004.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
13	TPF.PJ30006.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
14	TPF.PJ30007.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
15	TPF.PJ30010.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
16	TPF.PJ30010.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
17	TPF.PJ30010.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
18	TPF.PJ30013.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
19	TPF.PJ30014.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
20	TPF.PJ30015.CSRCE.OL	Full Segment Replacements for PUT 19	IEBCOPY	12,000
21	TPF.PJ30018.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
22	TPF.PJ30018.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
23	TPF.PJ30022.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
24	TPF.PJ30023.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
25	TPF.PJ30024.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
26	TPF.PJ30024.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
27	TPF.PJ30024.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
28	TPF.PJ30025.MODULES.OCO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
29	TPF.PJ30027.CSRCE.OL	Full Segment Replacements for PUT 19	IEBCOPY	12,000
30	TPF.PJ30028.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
31	TPF.PJ30028.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
32	TPF.PJ30028.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
33	TPF.PJ30030.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
34	TPF.PJ30031.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
35	TPF.PJ30032.MODULES.OCO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
36	TPF.PJ30036.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
37	TPF.PJ30036.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
38	TPF.PJ30040.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
39	TPF.PJ30041.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
40	TPF.PJ30043.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
41	TPF.PJ30043.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 9 (Page 3 of 7). Program Tape 8: File Content

<b>File Number</b>	<b>Name</b>	<b>Description</b>	<b>Format</b>	<b>BLK SIZE</b>
42	TPF.PJ30043.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
43	TPF.PJ30044.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
44	TPF.PJ30047.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
45	TPF.PJ30047.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
46	TPF.PJ30047.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
47	TPF.PJ30047.MODULES.OCO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
48	TPF.PJ30048.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
49	TPF.PJ30048.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
50	TPF.PJ30048.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
51	TPF.PJ30048.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
52	TPF.PJ30048.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
53	TPF.PJ30049.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
54	TPF.PJ30049.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
55	TPF.PJ30049.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
56	TPF.PJ30049.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
57	TPF.PJ30054.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
58	TPF.PJ30055.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
59	TPF.PJ30056.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
60	TPF.PJ30059.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
61	TPF.PJ30060.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
62	TPF.PJ30061.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
63	TPF.PJ30061.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
64	TPF.PJ30064.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
65	TPF.PJ30064.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
66	TPF.PJ30064.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
67	TPF.PJ30064.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
68	TPF.PJ30064.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
69	TPF.PJ30066.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
70	TPF.PJ30066.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
71	TPF.PJ30066.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
72	TPF.PJ30066.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 9 (Page 4 of 7). Program Tape 8: File Content

File Number	Name	Description	Format	BLK SIZE
73	TPF.PJ30067.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
74	TPF.PJ30067.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
75	TPF.PJ30067.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
76	TPF.PJ30069.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
77	TPF.PJ30069.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
78	TPF.PJ30071.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
79	TPF.PJ30072.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
80	TPF.PJ30078.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
81	TPF.PJ30079.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
82	TPF.PJ30081.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
83	TPF.PJ30084.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
84	TPF.PJ30084.MODULES.OCO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
85	TPF.PJ30085.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
86	TPF.PJ30086.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
87	TPF.PJ30088.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
88	TPF.PJ30088.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
89	TPF.PJ30089.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
90	TPF.PJ30091.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
91	TPF.PJ30091.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
92	TPF.PJ30091.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
93	TPF.PJ30091.SALIN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
94	TPF.PJ30091.SIPGEN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
95	TPF.PJ30092.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
96	TPF.PJ30092.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
97	TPF.PJ30093.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
98	TPF.PJ30093.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
99	TPF.PJ30093.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
100	TPF.PJ30097.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
101	TPF.PJ30097.MODULES.OCO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
102	TPF.PJ30100.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
103	TPF.PJ30103.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 9 (Page 5 of 7). Program Tape 8: File Content

<b>File Number</b>	<b>Name</b>	<b>Description</b>	<b>Format</b>	<b>BLK SIZE</b>
104	TPF.PJ30103.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
105	TPF.PJ30109.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
106	TPF.PJ30110.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
107	TPF.PJ30113.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
108	TPF.PJ30114.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
109	TPF.PJ30115.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
110	TPF.PJ30115.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
111	TPF.PJ30115.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
112	TPF.PJ30116.CHDR.INL	Full Segment Replacements for PUT 19	IEBCOPY	12,000
113	TPF.PJ30118.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
114	TPF.PJ30122.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
115	TPF.PJ30124.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
116	TPF.PJ30125.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
117	TPF.PJ30126.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
118	TPF.PJ30126.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
119	TPF.PJ30126.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
120	TPF.PJ30127.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
121	TPF.PJ30127.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
122	TPF.PJ30127.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
123	TPF.PJ30127.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
124	TPF.PJ30127.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
125	TPF.PJ30127.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
126	TPF.PJ30132.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
127	TPF.PJ30134.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
128	TPF.PJ30134.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
129	TPF.PJ30134.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
130	TPF.PJ30136.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
131	TPF.PJ30137.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
132	TPF.PJ30137.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
133	TPF.PJ30137.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
134	TPF.PJ30137.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 9 (Page 6 of 7). Program Tape 8: File Content

<b>File Number</b>	<b>Name</b>	<b>Description</b>	<b>Format</b>	<b>BLK SIZE</b>
135	TPF.PJ30137.SIPGEN	Full Segment Replacements for PUT 19	IEBCOPY	12,000
136	TPF.PJ30137.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
137	TPF.PJ30137.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
138	TPF.PJ30139.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
139	TPF.PJ30139.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
140	TPF.PJ30142.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
141	TPF.PJ30143.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
142	TPF.PJ30143.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
143	TPF.PJ30144.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
144	TPF.PJ30145.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
145	TPF.PJ30145.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
146	TPF.PJ30145.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
147	TPF.PJ30147.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
148	TPF.PJ30149.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
149	TPF.PJ30151.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
150	TPF.PJ30151.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
151	TPF.PJ30153.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
152	TPF.PJ30153.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
153	TPF.PJ30153.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
154	TPF.PJ30158.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
155	TPF.PJ30159.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
156	TPF.PJ30161.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
157	TPF.PJ30162.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
158	TPF.PJ30167.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
159	TPF.PJ30169.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
160	TPF.PJ30169.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
161	TPF.PJ30172.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
162	TPF.PJ30177.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
163	TPF.PJ30178.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
164	TPF.PJ30178.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
165	TPF.PJ30178.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 9 (Page 7 of 7). Program Tape 8: File Content

File Number	Name	Description	Format	BLK SIZE
166	TPF.PJ30179.MODULES.OCO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
167	TPF.PJ30182.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
168	TPF.PJ30183.SRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
169	TPF.PJ30184.SRCE.CP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
170	TPF.PJ30186.MACRO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
171	TPF.PJ30187.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
172	TPF.PJ30187.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
173	TPF.PJ30187.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
174	TPF.PJ30189.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
175	TPF.PJ30189.CHDR.TPF	Full Segment Replacements for PUT 19	IEBCOPY	12,000
176	TPF.PJ30189.CSRCE.OL	Full Segment Replacements for PUT 19	IEBCOPY	12,000
177	TPF.PJ30202.SRCE.OL	Full Segment Replacements for PUT 19	IEBCOPY	12,000
178	TPF.PJ30209.CHDR	Full Segment Replacements for PUT 19	IEBCOPY	12,000
179	TPF.PJ30209.SRCE.OL	Full Segment Replacements for PUT 19	IEBCOPY	12,000
180	TPF.PJ30211.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
181	TPF.PJ30211.EXP	Full Segment Replacements for PUT 19	IEBCOPY	12,000
182	TPF.PJ30211.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
183	TPF.PJ30211.OBJECT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
184	TPF.PJ30212.CSRCE.RT	Full Segment Replacements for PUT 19	IEBCOPY	12,000
185	TPF.PJ30212.MODULES	Full Segment Replacements for PUT 19	IEBCOPY	12,000
186	TPF.PJ30212.MODULES.OCO	Full Segment Replacements for PUT 19	IEBCOPY	12,000
187	TPF.PJ30223.SIPGEN	Full Segment Replacements for PUT 19	IEBCOPY	12,000

Table 10. Program Tape 9: File Content

File Number	Name	Description	Format	BLK SIZE
1	TPF.PUT19.APARS1.TAR.Z	Contains HFS format source and binary for PUT 19 APARs, PJ28154-PJ29949	IEBGENER	27,920

<i>Table 11. Program Tape 10: File Content</i>				
<b>File Number</b>	<b>Name</b>	<b>Description</b>	<b>Format</b>	<b>BLK SIZE</b>
1	TPF.PUT19.APARS2.TAR.Z	Contains HFS format source and binary for PUT 19 APARs, PJ29950-PJ30223	IEBGENER	27,920

<i>Table 12. Program Tape 11: File Content</i>				
<b>File Number</b>	<b>Name</b>	<b>Description</b>	<b>Format</b>	<b>BLK SIZE</b>
1	TPF.PUT19.LISTINGS.ASCII.TAR.Z	Contains HFS format listings for all PUT 19 code.	IEBGENER	27,920

---

## Program Publications

TPF 4.1 provides product information through the IBM TPF Product Information Center, which is available from the TPF Web site (at <http://www.ibm.com/tpf>) and from the *IBM TPF Product Information Center* CD-ROM, SK2T-8062. (The CD-ROM case includes more information about the contents of the CD-ROM and installation instructions.) Although IBM encourages you to use an information source that best matches your working style and environment, the IBM TPF Product Information Center is the preferred information source. **You will always find the most recent version of product information for the TPF family of products on the TPF Family Libraries Web page.**



---

## Installation Instructions

This chapter describes the installation method and step-by-step procedures to install PUT 19.

The JCL samples that are provided in this chapter are designed to install PUT 19 without affecting previously installed levels of TPF 4.1.

---

### Installing PUT 19 Information Files on Tape 1

Instructions are provided here for unloading the first five files from Tape 1. These files contain information that is specific to the content of PUT 19.

**Step 1** Print File 1. The following is sample JCL used to print File 1, which contains all the APAR responses for the APARs on PUT 19.

```
//PRTPP JOB (ACCOUNTING INFO),MSGLEVEL=1
//LIST EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=A
//SYSIN DD DUMMY
//SYSUT1 DD DSN=TAPE,DISP=OLD,UNIT=3480,VOL=SER=XXXXXX,LABEL=(1,NL),
// DCB=(LRECL=121,BLKSIZE=12100,RECFM=FBM)
//SYSUT2 DD SYSOUT=A
/*
```

**Step 2** Print File 2. The following is sample JCL used to print File 2, which contains all the PUT 19 APAR abstracts sorted by function group and severity.

```
//PRTPP JOB (ACCOUNTING INFO),MSGLEVEL=1
//LIST EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=A
//SYSIN DD DUMMY
//SYSUT1 DD DSN=TAPE,DISP=OLD,UNIT=3480,VOL=SER=XXXXXX,LABEL=(2,NL),
// DCB=(LRECL=80,BLKSIZE=800,RECFM=FB)
//SYSUT2 DD SYSOUT=A
/*
```

**Step 3** Print File 3. The following is sample JCL used to print File 3, which contains a cumulative list of APARs, segments, partitioned data sets, and PUT levels for source shipped code since PUT 01. Similar information can be found in the TPF 4.1 Pre-requisite File on the TPF Product Web Site.

```

//PRTPP JOB (ACCOUNTING INFO),MSGLEVEL=1
//LIST EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=A
//SYSIN DD DUMMY
//SYSUT1 DD DSN=TAPE,DISP=OLD,UNIT=3480,VOL=SER=XXXXXX,LABEL=(3,NL),
// DCB=(LRECL=80,BLKSIZE=800,RECFM=FB)
//SYSUT2 DD SYSOUT=A
/*

```

- Step 4** Print File 4. The following is sample JCL used to print File 4, which contains a list of the PUT 19 APARs in closure sequence. The same information can be found on the TPF Product Web Site.

```

//PRTPP JOB (ACCOUNTING INFO),MSGLEVEL=1
//LIST EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=A
//SYSIN DD DUMMY
//SYSUT1 DD DSN=TAPE,DISP=OLD,UNIT=3480,VOL=SER=XXXXXX,LABEL=(4,NL),
// DCB=(LRECL=80,BLKSIZE=800,RECFM=FB)
//SYSUT2 DD SYSOUT=A
/*

```

- Step 5** Print File 5. The following is sample JCL used to print File 5, which contains Licensed Program Specifications.

```

//PRTPP JOB (ACCOUNTING INFO),MSGLEVEL=1
//LIST EXEC PGM=IEBGENER
//SYSPRINT DD SYSOUT=A
//SYSIN DD DUMMY
//SYSUT1 DD DSN=TAPE,DISP=OLD,UNIT=3480,VOL=SER=XXXXXX,LABEL=(5,NL),
// DCB=(LRECL=80,BLKSIZE=800,RECFM=FB)
//SYSUT2 DD SYSOUT=A
/*

```

---

## Installing PUT 19 for New or Pre-PUT 18 TPF 4.1 Installations

Instructions are provided here for unloading files from Tape 2 through Tape 4 for new TPF 4.1 installations. These instructions should also be used to install PUT 19 if the existing TPF installation is not at PUT 18 level.

### Unloading Tapes 2 through 4

**Step 1** Unload all files on Tapes 2 and 3. Unload Files 2 and 3 on Tape 4. The following is sample JCL that will unload any file on Tape 2 through Tape 4 to an existing dataset. Substitute the "X" in the LABEL parameter on the INPUT DD statement with the appropriate file number found in Table 3 through Table 5.

```
//UNLOAD JOB (ACCOUNTING INFO),MSGLEVEL=1
//LIST EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=A
//INPUT DD VOL=SER=XXXXXX,LABEL=(X,NL),UNIT=3480,DISP=(OLD,PASS),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=12000),DSN=MNTRTP
//OUTPUT DD DISP=(OLD,PASS),DSN=ACP.xxxx.xx.RELvV,UNIT=3380,
// VOL=SER=YYYYYY
//SYSUT3 DD UNIT=SYSDA,SPACE=(CYL,(8)),DISP=(,PASS)
//SYSUT4 DD UNIT=SYSDA,SPACE=(CYL,(8)),DISP=(,PASS)
//SYSIN DD *
COPY OUTDD=OUTPUT,INDD=((INPUT,R))
/*
```

### Unloading Tape 4

**Step 1** Unload file 1 on Tape 4. The following is sample JCL that will unload the file on Tape 4 to an existing dataset. The partitioned dataset specified in the OUTPUT DD statement must be allocated with BLKSIZE=12000 or greater or the load modules will be corrupted.

```
//LINKS JOB (ACCOUNTING INFO),MSGLEVEL=1
//LIST EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=A
//INPUT DD VOL=SER=XXXXXX,LABEL=(1,NL),UNIT=3480,DISP=(OLD,PASS),
// DCB=(RECFM=U,LRECL=80,BLKSIZE=12000),DSN=MNTLNK
//OUTPUT DD DISP=(OLD,PASS),DSN=ACP.LINK.RELvV,UNIT=3380,
// VOL=SER=YYYYYY
//SYSUT3 DD UNIT=SYSDA,SPACE=(CYL,(8)),DISP=(,PASS)
//SYSUT4 DD UNIT=SYSDA,SPACE=(CYL,(8)),DISP=(,PASS)
//SYSIN DD *
COPY OUTDD=OUTPUT,INDD=((INPUT,R))
/*
```

---

## Installing PUT 19 for Existing TPF 4.1 Installations

Instructions are provided here for unloading files from Tape 3, Tape 4, and Tape 5 for an existing TPF 4.1 installation. If your existing TPF installation is not at PUT 18 level, follow the instructions for new TPF 4.1 installations.

### Unloading Tapes 3 and 4

**Step 1** Unload the non-source files on Tapes 3 and 4. The following is sample JCL that will unload any file on Tape 3 and Tape 4 to an existing dataset. Substitute the "X" in the LABEL parameter on the INPUT DD statement with the appropriate file number. On Tape 3, unload file numbers 7, 8, and 9. On Tape 4, unload file numbers 2 and 3.

```
//UNLOAD JOB (ACCOUNTING INFO),MSGLEVEL=1
//LIST EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=A
//INPUT DD VOL=SER=XXXXXX,LABEL=(X,NL),UNIT=3480,DISP=(OLD,PASS),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=12000),DSN=MNTRTP
//OUTPUT DD DISP=(OLD,PASS),DSN=ACP.xxxx.xx.RELvV,UNIT=3380,
// VOL=SER=YYYYYY
//SYSUT3 DD UNIT=SYSDA,SPACE=(CYL,(8)),DISP=(,PASS)
//SYSUT4 DD UNIT=SYSDA,SPACE=(CYL,(8)),DISP=(,PASS)
//SYSIN DD *
COPY OUTDD=OUTPUT,INDD=((INPUT,R))
/*
```

### Unloading Tape 4

**Step 1** Unload file 1 on Tape 4. The following is sample JCL that will unload the file on Tape 4 to an existing dataset. The partitioned dataset specified in the OUTPUT DD statement must be allocated with BLKSIZE=12000 or greater or the load modules will be corrupted.

```
//LINKS JOB (ACCOUNTING INFO),MSGLEVEL=1
//LIST EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=A
//INPUT DD VOL=SER=XXXXXX,LABEL=(1,NL),UNIT=3480,DISP=(OLD,PASS),
// DCB=(RECFM=U,LRECL=80,BLKSIZE=12000),DSN=MNTLNK
//OUTPUT DD DISP=(OLD,PASS),DSN=ACP.LINK.RELvV,UNIT=3380,
// VOL=SER=YYYYYY
//SYSUT3 DD UNIT=SYSDA,SPACE=(CYL,(8)),DISP=(,PASS)
//SYSUT4 DD UNIT=SYSDA,SPACE=(CYL,(8)),DISP=(,PASS)
//SYSIN DD *
COPY OUTDD=OUTPUT,INDD=((INPUT,R))
/*
```

## Unloading Tape 5

**Step 1** Unload the PUT 19 files on Tape 5. The following is sample JCL that will unload a file on Tape 5 to an existing dataset. On Tape 5, unload file numbers 1-11 to retrieve all the source changes made on PUT 19.

```
//JOB      JOB (ACCOUNTING INFO),MSGLEVEL=1
//LIST     EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=A
//INPUT    DD VOL=SER=XXXXXX,LABEL=(X,NL),UNIT=3480,DISP=(OLD,PASS),
//         DCB=(RECFM=FB,LRECL=80,BLKSIZE=12000),DSN=MNTOBJ
//OUTPUT   DD DISP=(OLD,PASS),TPF.PUT19.xxxx
//         VOL=SER=YYYYYY
//SYSUT3   DD UNIT=SYSDA,SPACE=(CYL,(8)),DISP=(,PASS)
//SYSUT4   DD UNIT=SYSDA,SPACE=(CYL,(8)),DISP=(,PASS)
//SYSIN    DD *
           COPY OUTDD=OUTPUT,INDD=((INPUT,R))
/*
```

---

## Other Reference Files for TPF 4.1 Installations

Other files are included on the PUT tapes that are not required for installation of the PUT but are provided for your reference.

## HFS Format Full Source, Objects, Load Modules, and Listings

Instructions are provided here for unloading HFS format full source, objects, load modules, and listings. See "Moving and Expanding TAR Files" on page 46 for instructions about TAR files.

**Step 1** Unload Files 6–14 on Tape 1, File 1 on Tape 9, File 1 on Tape 10 and File 1 on Tape 11. The following is sample JCL that will allocate a data set and unload any TAR file from Tape 1, Tape 9, Tape 10 or Tape 11. Substitute the "X" in the LABEL parameter on the SYSUT1 DD statement with the appropriate file number from Table 2, 10, 11 or 12.

```
//JOB EXEC PGM=IEBGENER,TIME=220,REGION=0M
//SYSPRINT DD SYSOUT=A
//SYSIN DD DUMMY
//SYSUT1 DD VOL=SER=XXXXXX,LABEL=(X,NL),UNIT=3480,DISP=(OLD,PASS),
// DCB=(DSORG=PS,RECFM=VB,LRECL=27916,BLKSIZE=27920),
// DSN=MNTOBJ
//SYSUT2 DD DSN=TPF.xxxx.xxxx.TAR.Z,DISP=(,CATLG),
// DCB=(DSORG=PS,RECFM=VB,LRECL=27916,BLKSIZE=27920),
// SPACE=(TRK,(1000,100)),VOL=SER=ZZZZZ,UNIT=3390
/*
```

## MVS Full Segment Replacements for APARs

Instructions are provided here for unloading MVS full segment replacements for individual PUT 19 APARs. These partitioned data sets are on Tapes 5-8. You can choose any APAR and retrieve the source code, objects, or load modules that were changed by or built for the APAR.

**Step 1** Unload all files on Tapes 5 through 8. The following is sample JCL that will unload any file on Tape 5 through Tape 8 to an existing data set. Substitute the "X" in the LABEL parameter on the INPUT DD statement with the appropriate file number found in Table 6-9.

```
//JOB JOB (ACCOUNTING INFO),MSGLEVEL=1
//LIST EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=A
//INPUT DD VOL=SER=XXXXXX,LABEL=(X,NL),UNIT=3480,DISP=(OLD,PASS),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=12000),DSN=MNTOBJ
//OUTPUT DD DISP=(OLD,PASS),TPF.PJxxxxx.xxxx
// VOL=SER=YYYYYY
//SYSUT3 DD UNIT=SYSDA,SPACE=(CYL,(8)),DISP=(,PASS)
//SYSUT4 DD UNIT=SYSDA,SPACE=(CYL,(8)),DISP=(,PASS)
//SYSIN DD *
COPY OUTDD=OUTPUT,INDD=((INPUT,R))
/*
```

**Note:** For all TPF.PJxxxxx.MODULES or TPF.PJxxxxx.MODULES.OCO data sets, use RECFM=U for the DCB definition in the sample JCL listed above.

## Moving and Expanding TAR Files

The TPF 4.1 PUT 19 tape contains the following TAR files:

- PUT 19 APARs, 293 APAR directories in 2 TAR files
- Binary objects
- Listings
- Full source replacement
- Sample source for ported packages.

*Table 13 (Page 1 of 2). TAR File Types and Naming Conventions*

Type of File	File Naming Convention	Notes
PUT 19 APARs	TPF.PUT19.APARS1.TAR.Z	The PUT 19 APARS1 TAR file contains a separate directory for each APAR (PJ28154-PJ29949) on PUT 19. Each directory contains the full source changed by the APAR, and binary objects and matching listings when appropriate.
PUT 19 APARs	TPF.PUT19.APARS2.TAR.Z	The PUT 19 APARS2 TAR file contains a separate directory for each APAR (PJ29950-PJ30223) on PUT 19. Each directory contains the full source changed by the APAR, and binary objects and matching listings when appropriate.
Binary	TPF.PUT19.BINARY.TAR.Z	The binary TAR file contains a complete replacement of all compiled objects, linked modules, library stubs, and DLM stubs at PUT 19 level.
Listings	TPF.PUT19.LISTINGS.ASCII.TAR.Z	The listings TAR file contains a complete replacement of all listings for all PUT 19 object-shippable objects.
Full source	TPF.PUT19.SOURCE.ASCII.TAR.Z	The full source TAR file contains all the source code for TPF 4.1 PUT 19. This is a complete replacement of all source code.
Sample source	TPF.ASCL.SOURCE.ASCII.TAR.Z	The ASCL TAR file contains all the source code for the ASCL support introduced on PUT 14.
Sample source	TPF.XML4C351.SOURCE.TAR.Z	The XML4C TAR file contains all the source code for XML Parser for C++ (XML4C) Version 3.5.1.

<i>Table 13 (Page 2 of 2). TAR File Types and Naming Conventions</i>		
<b>Type of File</b>	<b>File Naming Convention</b>	<b>Notes</b>
Sample source	TPF.TPFMAIL.SOURCE.ASCII.TAR.Z	The TPFMAIL TAR file contains all the source code for Internet mail server.
Sample source	TPF.OPENSSSL.SOURCE.ASCII.TAR.Z	The OPENSSSL TAR file contains all the source code for Secure Sockets Layer.
Sample source	TPF.DEBUG.SOURCE.ASCII.TAR.Z	The DEBUG TAR file contains all the source code for Expression Evaluator for TPF Debuggers.
Sample source	TPF.SOAP.SOURCE.ASCII.TAR.Z	The SOAP TAR file contains all the source code for TPF SOAP 1.2 Server Support.
Sample source	TPF.CDEC.SOURCE.ASCII.TAR.Z	The CDEC TAR file contains all the source code for Packed Decimal Arithmetic Support.

The TAR files are stored in MVS sequential data sets when the PUT tape is unpacked.

## PUT 19 APARs TAR Files

All source, binary object deliverables, and listings for each APAR on PUT 19 are contained in one of the PUT 19 TAR files. Each APAR is stored in its own directory. The TAR file has **not** been converted to ASCII format. Therefore it can only be unpacked on OS/390 UNIX. To unpack all the APAR directories on OS/390 Unix System Services (USS), you must do the following:

1. Access OS/390 UNIX and create a directory called `/yourdir/put19apars` where you will put the APAR TAR files.
2. Use the TSO `oput` command to copy the data set to the HFS directory you just created. For example:

```
oput 'TPF.PUT19.APARS1.TAR.Z' '/yourdir/put19apars/put19.apars1.tar.Z' binary
oput 'TPF.PUT19.APARS2.TAR.Z' '/yourdir/put19apars/put19.apars2.tar.Z' binary
```
3. Access OS/390 UNIX and change the directory to `/yourdir/put19apars`.
4. Unpack the TAR files using the following commands:

```
pax -rf put19.apars1.tar.Z
pax -rf put19.apars2.tar.Z
```

Each APAR directory includes a `/text` directory which has the APAR Response document, and for all APARs that deliver source-shippable code, a subdirectory structure will be created in the `/text` directory. The subdirectory structure will vary depending on what source was changed for the APAR.

If the APAR has binary deliverables, such as objects or linked modules, the APAR directory includes a `/binary` directory. A README file is stored in the directory. A subdirectory structure will be created in the

/binary directory. The subdirectory structure will vary depending on what binary objects are delivered for the APAR.

If the APAR delivers listings, they are stored in the /listings directory. No other subdirectory structure is created.

## Binary TAR File

The PUT 19 binary TAR file is a complete replacement of all binary objects for the TPF system. There are separate directories for compiled objects, linked modules, library stubs, and DLM stubs. The TAR file has **not** been converted to ASCII format so it can only be unpacked on OS/390 UNIX.

1. Access OS/390 UNIX and create a directory called /yourdir/put19.
2. Use the TSO oput command to copy the data set to the HFS directory you just created. For example:  

```
oput 'TPF.PUT19.BINARY.TAR.Z' '/yourdir/put19/base.binary.tar.Z' binary
```
3. Access OS/390 UNIX and change the directory to /yourdir/put19.
4. Unpack the TAR file using the following command:

```
pax -rf base.binary.tar.Z
```

A subdirectory called /binary will be created, and there are other subdirectories under /binary which hold the various binary objects. A README file is stored in /yourdir/put19/binary/README. The README file describes the content of the binary directory and explains how to move the various objects to TSO partitioned data sets.

## Listings TAR File

The PUT 19 listings TAR file is a complete replacement of all listings for object-shippable code on PUT 19. The TAR file has been converted to ASCII format so it can be unpacked on OS/390 UNIX or on a workstation. To process the file on OS/390 Unix System Services (USS), you must convert it to the EBCDIC format by doing the following:

1. Access OS/390 UNIX and create a directory called /yourdir/put19/listings.
2. Use the TSO oput command to copy the data set to the HFS directory you just created. For example:  

```
oput 'TPF.PUT19.LISTINGS.ASCII.TAR.Z' '/yourdir/put19/listings/tpf.listings.ascii.tar.Z' binary
```
3. Access OS/390 UNIX and change the directory to /yourdir/put19/listings.
4. Unpack the TAR file using the following command:

```
pax -rf tpf.listings.ascii.tar.Z -ofrom=IS08859-1,to=IBM-1047
```

## Full Source Replacement TAR File

The full source replacement TAR file contains all the shipped TPF source code at PUT 19 level, even if the code was not changed by a PUT 19 APAR. There are two exceptions. The HFS files for assembler segments `ol/base/sadump.asm` and `rt/base/cmp1.asm` do not contain the actual source code because these segments contain embedded binary code which cannot be stored in the hierarchical file system. The content of these two files is simply a comment directing you to find the correct source in the appropriate partitioned data set.

The name of the full source TAR file is `TPF.PUT19.SOURCE.ASCII.TAR.Z`. The TAR file is stored in a sequential data set on an MVS system. Do the following to create and unpack the TAR file.

1. Access OS/390 UNIX and create a directory called `/yourdir/put19`.
2. Use the TSO `oput` command to copy the data set to the HFS directory you just created. For example:  

```
oput 'TPF.PUT19.SOURCE.ASCII.TAR.Z' '/yourdir/put19/tpf.source.ascii.tar.Z' binary
```
3. Access OS/390 UNIX and change the directory to `/yourdir/put19`.
4. Unpack the TAR file using the following command:  

```
pax -rf tpf.source.ascii.tar.Z -ofrom=IS08859-1,to=IBM-1047
```

The result of this command is a directory structure in `/yourdir/put19`, which contains all source-shipped base TPF code for PUT 19.

## Sample Source TAR Files for Ported Packages

Six TPF packages that are delivered in TAR file format are included on Tape 1. If the content has changed since the last PUT, it is noted here.

- The source for the IBM Application Support Class Library is delivered in `TPF.ASCL.SOURCE.ASCII.TAR.Z`. This function had changes for PUT 19. See APAR PJ30209. The TAR file is stored in a sequential data set on an MVS system. Do the following to create and unpack the TAR file:
  1. Use the TSO `oput` command to copy the data set to the HFS directory of your choice. For example:  

```
oput 'TPF.ASCL.SOURCE.ASCII.TAR.Z' '/yourdir/ascl.source.ascii.tar.Z' binary
```
  2. Access OS/390 UNIX and change the directory to `/yourdir`.
  3. Unpack the TAR file using the following command:  

```
pax -rf ascl.source.ascii.tar.Z -ofrom=IS08859-1,to=IBM-1047
```

The result of this command is a new directory structure in `/yourdir`, called `/ascl`.

- The source for the Extensible Markup Language (XML) Version 3.5.1 is in `TPF.XML4C351.SOURCE.TAR.Z`. This function had changes for PUT 19. See APAR PJ29960. The

TAR file is stored in a sequential data set on an MVS system. Do the following to create and unpack the TAR file:

1. Use the TSO `oput` command to copy the data set to the HFS directory of your choice. For example:

```
oput 'TPF.XML4C351.SOURCE.TAR.Z' '/yourdir/xml4c351.source.tar.Z' binary
```

2. Access OS/390 UNIX and change the directory to `/yourdir`.
3. Unpack the TAR file using the following command:

```
pax -rf xml4c351.source.tar.Z
```

The result of this command is a new directory structure in `/yourdir`, called `/xml4csrc3_5_1`. The XML4C TAR file has not been converted to ASCII because it contains binary files that could be corrupted if they are converted to ASCII.

- The source for the TPF Internet mail server is in `TPF.TPFMAIL.SOURCE.ASCII.TAR.Z`. This function had changes for PUT 19. The TAR file is stored in a sequential data set on an MVS system. Do the following to create and unpack the TAR file:

1. Use the TSO `oput` command to copy the data set to the HFS directory of your choice. For example:

```
oput 'TPF.TPFMAIL.SOURCE.ASCII.TAR.Z' '/yourdir/tpfmail.source.ascii.tar.Z' binary
```

2. Access OS/390 UNIX and change the directory to `/yourdir`.
3. Unpack the TAR file using the following command:

```
pax -rf tpfmail.source.ascii.tar.Z -ofrom=IS08859-1,to=IBM-1047
```

The result of this command is a new directory structure in `/yourdir`, called `/tpf_mail`.

- The source for the Secure Sockets Layer (SSL) in TPF is in `TPF.OPENSSL.SOURCE.ASCII.TAR.Z`. This function had no changes for PUT 19. The TAR file is stored in a sequential data set on an MVS system. Do the following to create and unpack the TAR file:

1. Use the TSO `oput` command to copy the data set to the HFS directory of your choice. For example:

```
oput 'TPF.OPENSSL.SOURCE.ASCII.TAR.Z' '/yourdir/openssl.source.ascii.tar.Z' binary
```

2. Access OS/390 UNIX and change the directory to `/yourdir`.
3. Unpack the TAR file using the following command:

```
pax -rf openssl.source.ascii.tar.Z -ofrom=IS08859-1,to=IBM-1047
```

The result of this command is a new directory structure in `/yourdir`, called `/openssl-0.9.6`.

- The source for Expression Evaluator for TPF Debugger is in `TPF.DEBUG.SOURCE.ASCII.TAR.Z`. This function had no changes on PUT 19. The TAR file is stored in a sequential data set on an MVS system. Do the following to create and unpack the TAR file:

1. Use the TSO `oput` command to copy the data set to the HFS directory of your choice. For example:

```
oput 'TPF.DEBUG.SOURCE.ASCII.TAR.Z' '/yourdir/debug.source.ascii.tar.Z' binary
```

2. Access OS/390 UNIX and change the directory to /yourdir.

3. Unpack the TAR file using the following command:

```
pax -rf debug.source.ascii.tar.Z -ofrom=IS08859-1,to=IBM-1047
```

The result of this command is a new directory structure in /yourdir, called /debug.

- The source for TPF SOAP 1.2 Server Support is in TPF.SOAP.SOURCE.ASCII.TAR.Z. This function had no changes for PUT 19. The TAR file is stored in a sequential data set on an MVS system. Do the following to create and unpack the TAR file:

1. Use the TSO oput command to copy the data set to the HFS directory of your choice. For example:

```
oput 'TPF.SOAP.SOURCE.ASCII.TAR.Z' '/yourdir/soap.source.ascii.tar.Z' binary
```

2. Access OS/390 UNIX and change the directory to /yourdir.

3. Unpack the TAR file using the following command:

```
pax -rf soap.source.ascii.tar.Z -ofrom=IS08859-1,to=IBM-1047
```

The result of this command is a new directory structure in /yourdir, called /cb2b.

- The source for TPF CDEC is in TPF.CDEC.SOURCE.ASCII.TAR.Z. This function is new on PUT 19. See APAR PJ29576. The TAR file is stored in a sequential data set on an MVS system. Do the following to create and unpack the TAR file:

1. Use the TSO oput command to copy the data set to the HFS directory of your choice. For example:

```
oput 'TPF.CDEC.SOURCE.ASCII.TAR.Z' '/yourdir/cdec.source.ascii.tar.Z' binary
```

2. Access OS/390 UNIX and change the directory to /yourdir.

3. Unpack the TAR file using the following command:

```
pax -rf cdec.source.ascii.tar.Z -ofrom=IS08859-1,to=IBM-1047
```

The result of this command is a new directory structure in /yourdir, called /cdec.



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