



z/TPF V1.1

TPF Users Group Spring 2008

Title: z/TPF Loaders Update

Subtitle: Preview of works in progress

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Venue: Hot Topic

AIM Enterprise Platform Software
IBM z/Transaction Processing Facility Enterprise Edition 1.1.0

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Items to discuss

- **Program control information**
 - Information already provided
 - New information
 - ZDMAP and ZOLDR changes
- **Other loader changes**
- **Discussion**

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Program control information already provided

- **Shared object version code in maketpf.cfg**
 - USER_VERSION_CODE := KX
 - VERSION_CFTP := KW
 - Shown in displays
- **Object comment in maketpf.cfg**
 - TPF OBJPP_COMMENT := PJ32232
 - Stored in each object; shown in ZDMAP display

Current ZDMAP

```
zdmmap cftp i-lpath
CSMP0097I 07.31.16 CPU-B SS-BSS  SSU-HPN  IS-01
DMAP0003I 07.31.16 LINK MAP DATA DISPLAY
                CFTPWKW ACTIVE IN LOADSET BASE IN SUBSYSTEM BSS
                PROGRAM ADDRESS                0000000390E02D60
                PROGRAM SIZE                   0000A45C

/ztpf/aparbld/PJ32232/base/obj/cftp1.o      - OBJ FILE AT ADDR 0000000390E02D60
OBJECT FILE SIZE                            000058A4
COMPILER INFO - GCC: (GNU) 4.1.2 20060724 (prerelease) (GNUPro 06r1)  _
COMPILED ON 2007/09/19 AT 10.42.31
COMMENT - PJ32232

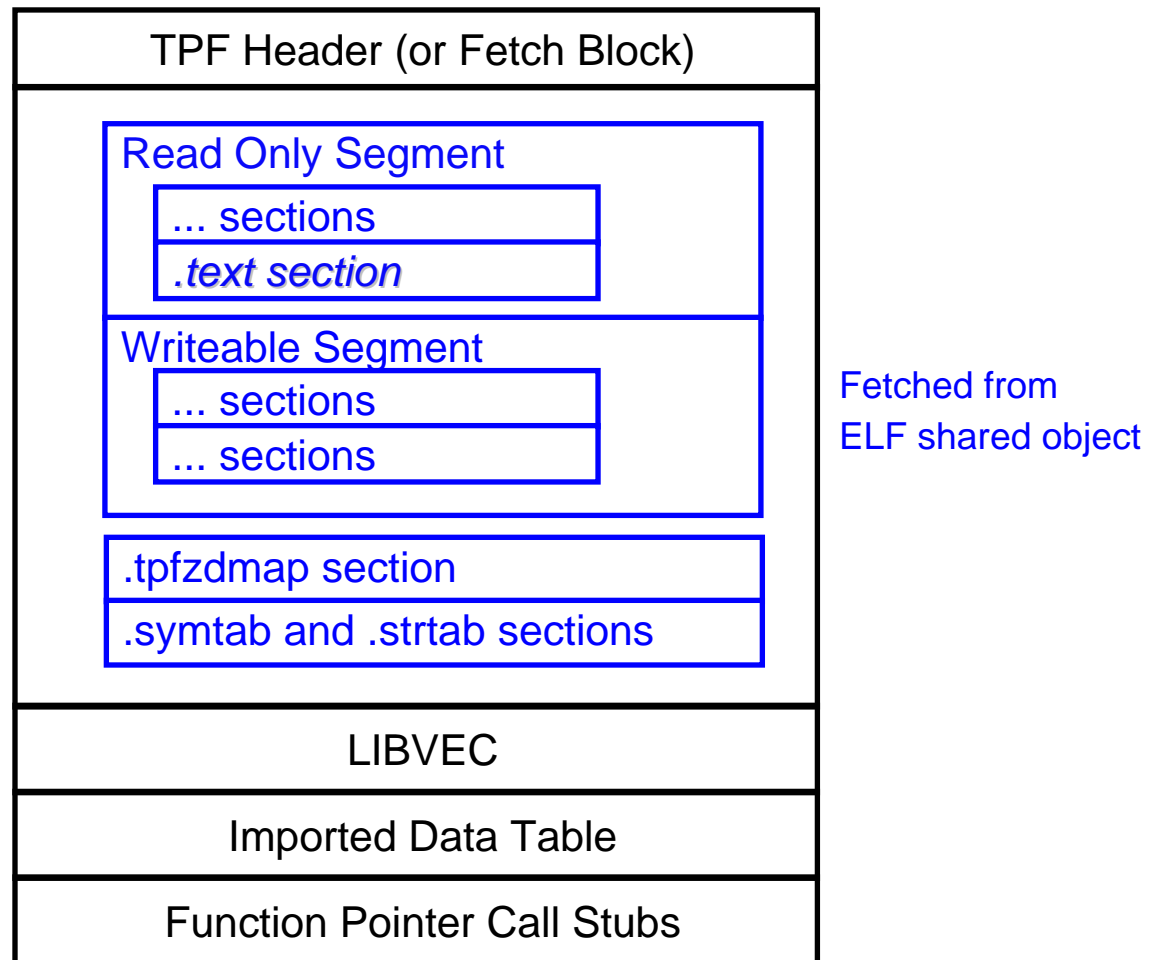
/ztpf/bld/base/obj/cftp3.o                  - OBJ FILE AT ADDR 0000000390E08604
OBJECT FILE SIZE                            00000610
COMPILER INFO - GCC: (GNU) 4.1.2 20060724 (prerelease) (GNUPro 06r1)
COMPILED ON 2007/02/05 AT 13.26.15  _
COMMENT - PUT3

NAME - /ztpf/aparbld/PJ32232/base/obj/bld-PJ32232.o  _
OBJECT FILE SIZE                            00000000
COMPILED ON 2007/09/19 AT 10.42.42
COMMENT - PJ32232
```

New program control information

- **Additional information in maketpf.cfg**
 - TPF OBJPP_COMMENT2 := “Defect 17123 fix”
 - TPF OBJPP_COMMENT3 := /home/andrson/17123
- **Stored in each object; shown in ZDMAP display**
- **Not used by IBM – just displayed**
- **Not filled in automatically**
 - Only used if non-blank

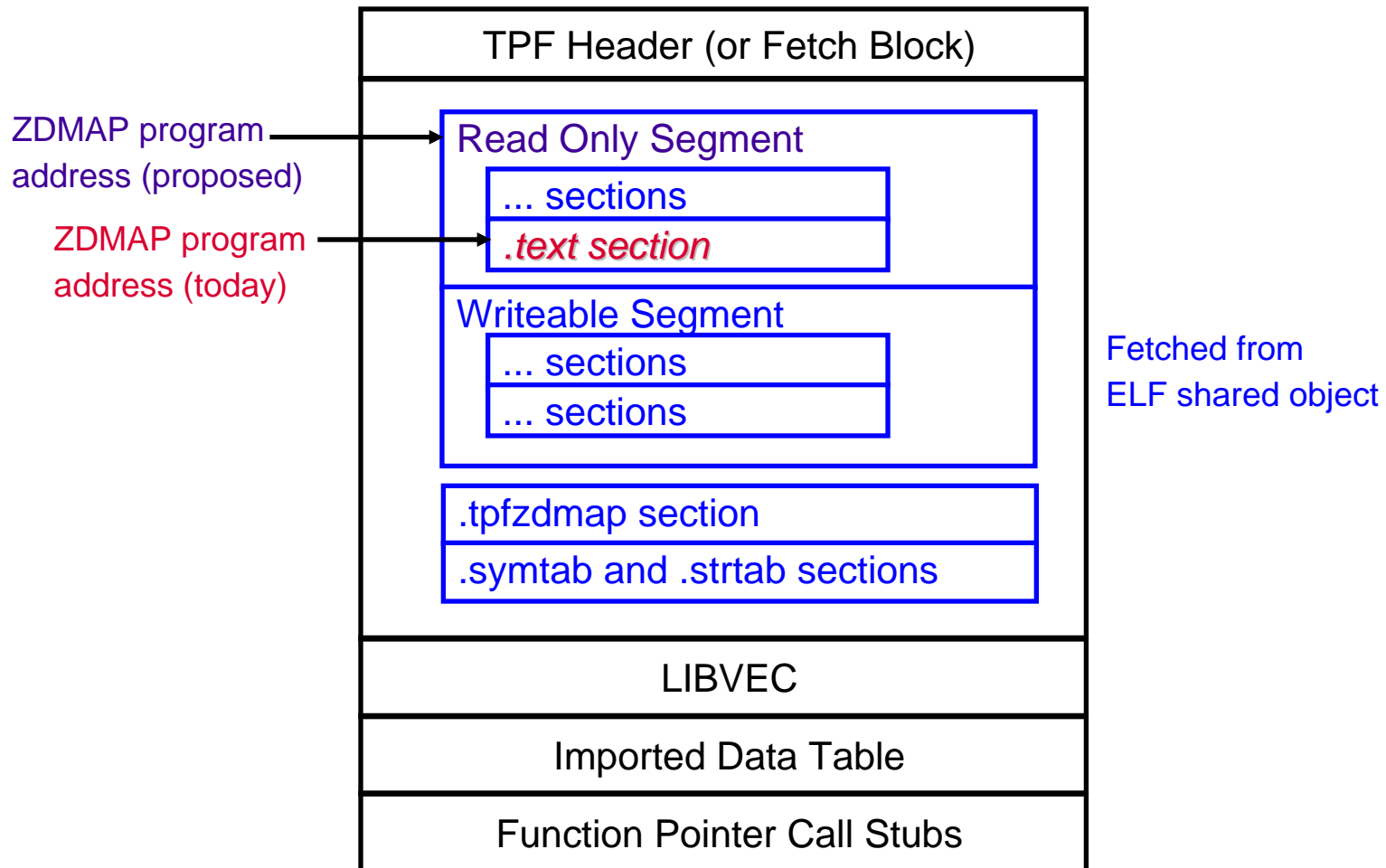
Realtime Program in memory



ZDMAP changes for program control

- **Ability to display inactive versions**
- **ZDMAP PROG OFFSET-xxxx option**
- **Add breakdown of Core Resident Program Area:**
 - Address of TPF Header (or Fetch Block)
 - Address of read only segment
 - Address of writeable segment
 - Address of .tpfzdmmap section
 - Address of LIBVEC
- **Add start of .text section & size of .text section**

Realtime Program in memory



ZOLDR changes for program control

- **Loadset comment (<= 100 characters)**
 - New control statement for offline loader
 - Shown in ZOLDR DISPLAY LOADSET
 - Ability to alter comment online

Other Loader Changes

- **ZIMAG COPY of CIMR components to enabled image**
- **ZOLDR ACCEPT option to force completion**
 - Ignore long running ECBs
- **Only recycle daemons when necessary**
 - Not every time system activation number changes
- **Remove restriction for running ALDR on z/OS**

Discussion

- **What other program control information is needed?**
- **Where else should program control information be displayed?**
- **Comments on priorities of items?**

References

- **TPFUG Fall 2007 conference hot topic: Code Flow and Versioning by Brian Laferriere**
 - <http://ibm.com/tpf/tpfug/tgf07/tgf07q.pdf>

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