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FOR THE SAFETY OF AIR NAVIGATION

EUROCONTROL EXPERIMENTAL CENTRE

REVISION SUMMARY DOCUMENT FOR THE BASE OF AIRCRAFT DATA (BADA) REVISION 2.5

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Abstract:

This Revision Summary Document (RSD) describes all changes made to BADA files in Revision 2.5 since the previous release, Revision 2.4. Configuration management procedures for BADA trace all changes through Configuration Change Orders (CCOs). The RSD thus presents a list of all 30 CCOs implemented for BADA 2.5 along with a description for each CCO.

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Revision Summary Document for the Base of Aircraft Data (BADA) 2.5

EUROCONTROL Experimental Centre

Summary

This Revision Summary Document (RSD) describes all changes made to BADA files in Revision 2.5 since the previous release, Revision 2.4. Configuration management procedures for BADA trace all changes through Configuration Change Orders (CCOs). The RSD thus presents a list of all 30 CCOs implemented for BADA 2.5 along with a description for each CCO.

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1. INTRODUCTION

1.1 Identification and Scope

This document summarises the changes made to the Base of Aircraft Data (BADA), Revision 2.5 since the previous Revision 2.4.

A general description of BADA Revision 2.5 is provided in the BADA 2.5 User Manual [RD1].

1.2 Organisation

This document is presented in two sections including Section 1, the Introduction. This first section includes a list of referenced documents and a glossary of acronyms.

Section 2, Configuration Change Orders, presents a list of all changes to the BADA files between Revision 2.4 and 2.5. Each change is classified as a Configuration Change Order (CCO). A description for each CCO is also included in this section.

A copy of the Revision Summary File for BADA 2.5 is included as Appendix A.

1.3 Referenced Documents

RD1 User Manual for the Base of Aircraft Data (BADA) Revision 2.5; EEC Note No. 1/97, January 1997.

RD2 Configuration Management Manual for the Base of Aircraft Data (BADA), Issue 1.0; Internal EEC Note 4/B2.3/1995, 18 October 1995.

RD3 Coverage of 1995 European Air Traffic by the Base of Aircraft Data Revision 2.4; EEC Note 13/96, June 1996.

RD4 Aircraft Type Designators; ICAO Document No. 8643, 24th Edition, January 1994.

RD5 Equivalences Report for the Base of Aircraft Data (BADA) Revision 2.5; EEC Note No. 30/96; December 1996

1.4 Glossary of Acronyms

APF Airline Procedures File

BADA Base of Aircraft Data

CAS Calibrated Airspeed

CCO Configuration Change Order

CM Configuration Management

CRCO Central Route Charges Office

EEC Eurocontrol Experimental Centre

ICAO International Civil Aviation Organisation

IPAS Integrated Preparation and Analysis System

OPF Operations Performance File

PTF Performance Table File

RCS Revision Control System

ROD Rate of Descent

RSD Revision Summary Document

2. CONFIGURATION CHANGE ORDERS

Table 2-1 below provides a summary of the 30 BADA Configuration Change Orders (CCOs) that were implemented between BADA Revisions 2.4 and 2.5. The use of CCOs as part of the configuration management (CM) procedures for BADA is described in the BADA CM Manual [RD2].

Table 2-1: CCO Summary for BADA 2.5

CCO Identifier	Title
BADA-CCO-96-01	New equivalent for B74S
BADA-CCO-96-02	New speedschedule for several turboprops
BADA-CCO-96-03	TB20 fuel consumption corrected
BADA-CCO-96-04	New model for MD80
BADA-CCO-96-05	Correction of Cf2 in MD80 model
BADA-CCO-96-06	DH83 model added to BADA
BADA-CCO-96-07	New equivalences added for SA4/SA5
BADA-CCO-96-08	Equivalences for BE36/58 corrected
BADA-CCO-96-09	DH83 Cruise Mach number changed
BADA-CCO-96-10	DH83 descent schedule changed to intermediate
BADA-CCO-96-11	New model for EA32
BADA-CCO-96-12	CL65 model added to BADA
BADA-CCO-96-13	CL65 Ctc3 value corrected
BADA-CCO-96-14	New model B73S
BADA-CCO-96-14	New synonyms for SweDen 96
BADA-CCO-96-15	S601 added to SYNONYM.LST/NEW
BADA-CCO-96-16	New model for B737
BADA-CCO-96-17	New model for B767
BADA-CCO-96-18	New model for DC9
BADA-CCO-96-19	Cruise/Descent Mach number FK50 corrected
BADA-CCO-96-20	Cruise CAS B73F corrected
BADA-CCO-96-21	Cruise CAS/Mach B767 corrected
BADA-CCO-96-22	CAS/Mach schedule for Cruise updated
BADA-CCO-96-23	New model for FK10

Table 2-1: CCO Summary for BADA 2.5 (continued)

BADA-CCO-96-24	New model for AT42
BADA-CCO-96-25	New model for BA46
BADA-CCO-96-26	Correct C551 entry
BADA-CCO-96-27	Correct DA20 cruise speeds
BADA-CCO-96-28	BADA.GPF file added to RCS
BADA-CCO-96-29	Update OPF files to BADA 2.5

Please note that there are two CCOs with identical numbers (96-14). This is the result of a numbering error which was made when entering the modifications. Descriptions for each CCO are presented in subsequent pages. For each CCO a description of the change, motivation for the change and a specification of the affected files is provided. If either the OPF or APF file has been changed than the PTF file is re-created with the updated files, although this is not mentioned specifically. For an explanation of symbols referring to BADA coefficients, see the BADA 2.5 User Manual [RD1].

BADA-CCO-96-01

New equivalent for B74S Model

Description of Modification:

B74S equivalent changed from B747 to B74F.

Reason for Modification:

The maximum altitude of the B74F is closer to that of the B74S than the B747.

Files Affected:

SYNONYM.LST	modified
SYNONYM.NEW	modified

BADA-CCO-96-02

New speedschedules for several turboprops

Description of Modification:

For 4 turboprop models the speedschedule was changed.

Reason for Modification:

The speedschedule in the APF files did not reflect properly the speeds mentioned in the Flight Manuals.

Files Affected:

BE90__.APF	modified
BE99__.APF	modified
E120__.APF	modified
PA42__.APF	modified

BADA-CCO-96-03

TB20 fuel consumption corrected

Description of Modification:

The TB20 fuel consumption has been lowered (from 1.0 to 0.67 kg/min) and the minimum fuel consumption has been set to 0.5.

Reason for Modification:

The TB20 was running out of fuel too early during simulations. Changes were made based on Flight Manual data.

Files Affected:

TB20__.OPF	modified

BADA-CCO-96-04

New model for MD80

Description of Modification:

MD80 model was re-developed

Reason for Modification:

The most important BADA models will be re-developed in order to improve model quality.

Files Affected:

MD80__.OPF	modified
MD80__.APF	modified

BADA-CCO-96-05

Correction for Cf2 in MD80 model

Description of Modification:

Cf2 value was modified in MD80 OPF file

Reason for Modification:

The Cf2 value was inadvertently set to 10. This was corrected to the proper value of 100.

Files Affected:

MD80__.OPF modified

BADA-CCO-96-06

DH83 model added to BADA

Description of Modification:

A new model for the De Havilland Dash 8 -300 (DH83) was added to BADA

Reason for Modification:

The Dash 8 -300 is an aircraft with a significant traffic share (1.2 % according to RD3) which was still missing from BADA. It was added to BADA to increase the coverage of air traffic in Europe.

Files Affected:

DH83__.OPF	created
DH83__.APF	created
SYNONYM.LST	modified
SYNONYM.NEW	modified

BADA-CCO-96-07

New equivalences for SA4/SA5 added

Description of Modification:

New equivalences were added to the SYNONYM.LST/NEW files.

Reason for Modification:

New equivalences had to be added because of real-time simulation requirements for SA4 (NSSG-RVSM) and SA5 (FAA ODID IV).

Files Affected:

SYNONYM.LST	modified
SYNONYM.NEW	modified

Note: for an overview of the new equivalences, please refer to RD5.

BADA-CCO-96-08

Equivalences for BE36/58 corrected

Description of Modification:

The equivalences for the BE36/58 models were corrected

Reason for Modification:

The equivalences for the BE36/58 model were not correctly implemented in the SYNONYM.NEW file.

Files Affected:

SYNONYM.NEW	modified

BADA-CCO-96-09

DH83 Cruise Mach numbers changed

Description of Modification:

The cruise Mach numbers for the DH83 model were all set to the same value.

Reason for Modification:

In the initial APF file the Mach cruise numbers were set at different values as a function of the weight range. The IPAS program however does not allow this.

Files Affected:

DH83__.APF	modified

BADA-CCO-96-10

DH83 Descent schedule changed to intermediate

Description of Modification:

The DH83 low speed schedule was changed to an intermediate schedule

Reason for Modification:

The speed schedule was changed in order to be better match current operating procedures (on request of RTO division)

Files Affected:

DH83__.APF

BADA-CCO-96-11

New model for EA32

Description of Modification:

The EA32 model was re-developed

Reason for Modification:

The most important BADA models will be re-developed in order to improve model quality.

Files Affected:

EA32__.OPF	modified
EA32__.APF	modified

BADA-CCO-96-12

CL65 model added to BADA

Description of Modification:

A model for the Canadair Regional Jet (CL65) was added to BADA.

Reason for Modification:

The CL65 was a model with a significant traffic share (see RD3) that was still missing from the BADA database. The model was added to increase the coverage of European air traffic.

Files Affected:

CL65__.OPF	created
CL65__.APF	created

BADA-CCO-96-13

CL65 Ctc3 value corrected

Description of Modification:

The value of Ctc3 in the CL65 OPF file was corrected.

Reason for Modification:

The Ctc3 value was not properly entered when adding the CL65 model to BADA.

Files Affected:

CL65__.OPF

BADA-CCO-96-14

New model for B73S

Description of Modification:

The B73S model was re-developed.

Reason for Modification:

The most important BADA models will be re-developed in order to improve model quality.

Files Affected:

B73S__.OPF	modified
B73S__.APF	modified

BADA-CCO-96-14

New equivalences for SweDen 96 simulations

Description of Modification:

New equivalences were added to the SYNONYM.NEW/LST files

Reason for Modification:

New equivalences were necessary for the SweDen 96 (combined Sweden/Denmark) simulation.

Files Affected:

SYNONYM.LST	modified
SYNONYM.NEW	modified

Note: for an overview of the new equivalences, please refer to RD5.

BADA-CCO-96-15

S601 added to SYNONYM.NEW/LST

Description of Modification:

The S601 was added to SYNONYM.LST/NEW.

Reason for Modification:

New requirement for SweDen 96 simulation.

Files Affected:

SYNONYM.LST	modified
SYNONYM.NEW	modified

BADA-CCO-96-16

New model for B737

Description of Modification:

The B737 model was re-developed

Reason for Modification:

The most important BADA models will be re-developed in order to improve model quality.

Files Affected:

B737__.OPF	modified
B737__.APF	modified

BADA-CCO-96-17

New model for B767

Description of Modification:

The B767 model was re-developed

Reason for Modification:

The most important BADA models will be re-developed in order to improve model quality.

Files Affected:

B767__.OPF	modified
B767__.APF	modified

BADA-CCO-96-18

New model for DC9

Description of Modification:

The DC9 model was re-developed

Reason for Modification:

The most important BADA models will be re-developed in order to improve model quality.

Files Affected:

DC9___.OPF	modified
DC9___.APF	modified

BADA-CCO-96-19

Cruise/Descent Mach number FK50 changed

Description of Modification:

The Cruise/Descent Mach numbers for the FK50 were changed

Reason for Modification:

Mach numbers were changed to better match Flight Manual procedures.

Files Affected:

FK50__.APF modified

BADA-CCO-96-20

Cruise CAS for B73F changed

Description of Modification:

The Cruise CAS for the B73F was changed

Reason for Modification:

The CAS value was changed to better match Flight Manual procedures.

Files Affected:

B73F__.APF modified

BADA-CCO-96-21

Cruise CAS/Mach for B767 changed

Description of Modification:

The Cruise CAS/Mach schedule for the B767 was changed to better match Flight Manual procedures. (Note: a change to the speedschedule had been made at the special request of Hungarian controllers during the AR40 simulation)

Reason for Modification:

The Cruise CAS/Mach has been changed to better match the Flight Manual procedures.

Files Affected:

B767__.APF modified

BADA-CCO-96-22

CAS/Mach schedule update for Cruise

Description of Modification:

For several models the Cruise CAS/Mach schedule is updated.

Reason for Modification:

CAS/Mach values were changed to better match Flight Manual values and to facilitate the determination of the cruise fuel flow factor. (Note: This CCO number was made specifically to avoid entering a new number every time a speedschedule change was made)

Files Affected:

B747__.APF	modified
B727__.APF	modified

BADA-CCO-96-23

New model for the FK10

Description of Modification:

The FK10 model was re-developed.

Reason for Modification:

The most important BADA models will be re-developed in order to improve model quality.

Files Affected:

FK10__.OPF	modified
FK10__.APF	modified

BADA-CCO-96-24

New model for the AT42

Description of Modification:

The AT42 model was re-developed

Reason for Modification:

The most important BADA models will be re-developed in order to improve model quality.

Files Affected:

AT42__.OPF	modified
AT42__.APF	modified

BADA-CCO-96-25

New model for the BA46

Description of Modification:

The BA46 model was re-developed

Reason for Modification:

The most important BADA models will be re-developed in order to improve model quality.

Files Affected:

BA46__.OPF	modified
BA46__.APF	modified

BADA-CCO-96-26

Correct C551 entry

Description of Modification:

The C551 entry in SYNONYM.LST was changed from "direct" to "equivalent".

Reason for Modification:

The old entry was incorrect.

Files Affected:

SYNONYM.LST modified

BADA-CCO-96-27

Correct DA20 cruise speeds

Description of Modification:

The cruise speeds for the DA20 model were changed.

Reason for Modification:

During verification of the DA20 Flight Manual, it was found that the old cruise speeds values were incorrect.

Files Affected:

DA20__.APF	modified

BADA-CCO-96-28

BADA.GPF file added to RCS

Description of Modification:

The BADA .GPF file was added to RCS

Reason for Modification:

The BADA.GPF is a new file to be released in BADA 2.5. It was added to RCS for configuration management requirements.

Files Affected:

BADA.GPF	created

BADA-CCO-96-29

Update OPF files to BADA 2.5

Description of Modification:

All OPF files were updated to BADA 2.5 format. This includes the correction of unit of the stall speeds (from IAS to CAS) and the addition of new parameters.

Reason for Modification:

The OPF files need to be updated before the release of BADA 2.5.

Files Affected:

*.OPF	modified

APPENDIX A

Revision Summary File for BADA 2.5

BADA Revision Summary File

Revision Id: 2.5
Release Date: 96/12/20
Number of Files: 210 Page 1 / 6

File Name	Revision	Last Modification (revision	date)	Size (bytes)	Checksum
SYNONYM.LST	2.5	2.4.1.6	96/08/12	9721	4066989111
SYNONYM.NEW	2.5	2.4.1.8	96/11/11	13404	1538441656
AT42__.APF	2.5	2.4.1.1	96/09/30	2424	1824358459
AT42__.OPF	2.5	2.4.1.3	96/12/18	4392	1031641043
AT42__.PTF	2.5			5396	2023543382
AT72__.APF	2.5	2.2.1.2	95/05/18	2424	1358813226
AT72__.OPF	2.5	2.4.1.1	96/12/16	4392	222408359
AT72__.PTF	2.5			5356	405481787
B707__.APF	2.5	2.3.1.1	95/08/29	2424	4206130648
B707__.OPF	2.5	2.4.1.1	96/12/16	4392	3440842247
B707__.PTF	2.5			5456	2332514366
B727__.APF	2.5	2.4.1.1	96/09/17	2424	777466703
B727__.OPF	2.5	2.4.1.1	96/12/16	4392	3679440543
B727__.PTF	2.5			5456	843454361
B737__.APF	2.5	2.4.1.1	96/08/13	2424	4041818298
B737__.OPF	2.5	2.4.1.2	96/12/16	4392	1530759834
B737__.PTF	2.5			5456	551689804
B73F__.APF	2.5	2.4.1.1	96/09/04	2424	2172492853
B73F__.OPF	2.5	2.4.1.1	96/12/16	4392	834249709
B73F__.PTF	2.5			5456	3606312414
B73S__.APF	2.5	2.4.1.1	96/07/29	2424	3515635031
B73S__.OPF	2.5	2.4.1.2	96/12/16	4392	4090922135
B73S__.PTF	2.5			5456	2800945122
B73V__.APF	2.5	2.2.1.1	95/04/24	2424	2071647125
B73V__.OPF	2.5	2.4.1.1	96/12/16	4392	1709466487
B73V__.PTF	2.5			5456	693764572
B747__.APF	2.5	2.4.1.1	96/09/17	2424	3541515870
B747__.OPF	2.5	2.4.1.1	96/12/16	4392	3817425797
B747__.PTF	2.5			5456	1439698870
B74F__.APF	2.5	2.2.1.1	95/03/03	2424	4224740271
B74F__.OPF	2.5	2.4.1.1	96/12/16	4392	2374640532
B74F__.PTF	2.5			5456	1308761272
B757__.APF	2.5	2.2.1.2	95/05/18	2424	701494118
B757__.OPF	2.5	2.4.1.1	96/12/16	4392	278306376
B757__.PTF	2.5			5456	615604796
B767__.APF	2.5	2.4.1.2	96/09/05	2424	2597066009
B767__.OPF	2.5	2.4.1.2	96/12/16	4392	2778027633
B767__.PTF	2.5			5456	145835984
BA11__.APF	2.5	2.2.1.2	95/05/18	2424	2977819284
BA11__.OPF	2.5	2.4.1.1	96/12/16	4392	2620460568

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Revision Id: 2.5
Release Date: 96/12/20
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File Name	Revision	Last Modification (revision	date)	Size (bytes)	Checksum
BA11__.PTF	2.5			5456	678784
BA31__.APF	2.5	2.2.1.2	95/05/18	2424	3634073647
BA31__.OPF	2.5	2.4.1.1	96/12/16	4392	683420653
BA31__.PTF	2.5			5376	1351246677
BA41__.APF	2.5	2.2.1.2	95/05/18	2424	1986634972
BA41__.OPF	2.5	2.4.1.1	96/12/16	4392	3526391427
BA41__.PTF	2.5			5376	1716807102
BA46__.APF	2.5	2.4.1.2	96/10/07	2424	1572856024
BA46__.OPF	2.5	2.4.1.2	96/12/16	4392	221021993
BA46__.PTF	2.5			5456	1307766251
BADA.GPF	2.5	2.4.1.5	96/12/11	7566	4022835169
BATP__.APF	2.5	2.2.1.3	95/05/18	2424	2827038231
BATP__.OPF	2.5	2.4.1.1	96/12/16	4392	3211448167
BATP__.PTF	2.5			5316	2131332667
BE20__.APF	2.5	2.2.1.1	95/03/03	2424	1518722931
BE20__.OPF	2.5	2.4.1.1	96/12/16	4392	2547239648
BE20__.PTF	2.5			5456	2327252119
BE90__.APF	2.5	2.4.1.1	96/02/09	2424	3392417946
BE90__.OPF	2.5	2.4.1.1	96/12/16	4392	2990407872
BE90__.PTF	2.5			5396	3191095116
BE99__.APF	2.5	2.4.1.1	96/02/09	2424	734023342
BE99__.OPF	2.5	2.4.1.1	96/12/16	4392	1865465598
BE99__.PTF	2.5			5456	3097085760
C130__.APF	2.5	2.2.1.1	95/03/03	2424	1596102922
C130__.OPF	2.5	2.4.1.1	96/12/16	4392	1721187575
C130__.PTF	2.5			5456	1138257584
C421__.APF	2.5	2.3.1.1	95/12/08	2424	2022514455
C421__.OPF	2.5	2.4.1.1	96/12/16	4392	1866123765
C421__.PTF	2.5			5416	4167731531
C550__.APF	2.5	2.2.1.1	95/03/03	2424	1244988800
C550__.OPF	2.5	2.4.1.1	96/12/16	4392	2213848472
C550__.PTF	2.5			5456	3735264124
C560__.APF	2.5	2.2.1.1	95/03/03	2424	1469425018
C560__.OPF	2.5	2.4.1.1	96/12/16	4392	2030330651
C560__.PTF	2.5			5456	2525509901
CL60__.APF	2.5	2.2.1.2	95/05/18	2424	2389095651
CL60__.OPF	2.5	2.4.1.1	96/12/16	4392	4292502559
CL60__.PTF	2.5			5456	1887105014
CL65__.APF	2.5	2.4.1.1	96/07/24	2424	1343921962
CL65__.OPF	2.5	2.4.1.3	96/12/16	4392	3097533956

BADA Revision Summary File

Revision Id: 2.5
Release Date: 96/12/20
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File Name	Revision	Last Modification (revision	date)	Size (bytes)	Checksum
CL65__.PTF	2.5			5456	195493112
D228__.APF	2.5	2.2.1.2	95/03/03	2424	1178131822
D228__.OPF	2.5	2.4.1.1	96/12/16	4392	267368938
D228__.PTF	2.5			5456	1935097031
D328__.APF	2.5	2.2.1.2	95/05/18	2424	1019460356
D328__.OPF	2.5	2.4.1.1	96/12/16	4392	3709229514
D328__.PTF	2.5			5456	4116008861
DA01__.APF	2.5	2.2.1.2	95/05/18	2424	2805595833
DA01__.OPF	2.5	2.4.1.1	96/12/16	4392	2237593711
DA01__.PTF	2.5			5456	526093200
DA10__.APF	2.5	2.2.1.2	95/05/18	2424	3197370949
DA10__.OPF	2.5	2.4.1.1	96/12/16	4392	4102319366
DA10__.PTF	2.5			5456	1471938124
DA20__.APF	2.5	2.4.1.1	96/12/10	2424	998059582
DA20__.OPF	2.5	2.4.1.1	96/12/16	4392	17517766
DA20__.PTF	2.5			5456	2894520252
DA50__.APF	2.5	2.2.1.2	95/05/18	2424	3449139516
DA50__.OPF	2.5	2.4.1.1	96/12/16	4392	1918896796
DA50__.PTF	2.5			5456	208336752
DA90__.APF	2.5	2.2.1.2	95/05/18	2424	1078819582
DA90__.OPF	2.5	2.4.1.1	96/12/16	4392	649760467
DA90__.PTF	2.5			5456	2084497723
DC10__.APF	2.5	2.2.1.1	95/03/03	2424	2986044994
DC10__.OPF	2.5	2.4.1.1	96/12/16	4392	2007775010
DC10__.PTF	2.5			5456	3686817301
DC8S__.APF	2.5	2.2.1.2	95/05/18	2424	3464780976
DC8S__.OPF	2.5	2.4.1.1	96/12/16	4392	292086727
DC8S__.PTF	2.5			5456	2630438687
DC9___.APF	2.5	2.4.1.1	96/08/14	2424	1433183583
DC9___.OPF	2.5	2.4.1.2	96/12/16	4392	587233439
DC9___.PTF	2.5			5456	3190183468
DH83__.APF	2.5	2.4.1.3	96/05/07	2424	3767249485
DH83__.OPF	2.5	2.4.1.2	96/12/16	4392	3599676399
DH83__.PTF	2.5			5396	3829455790
DH8___.APF	2.5	2.2.1.2	95/05/18	2424	2113129151
DH8___.OPF	2.5	2.4.1.1	96/12/16	4392	346158256
DH8___.PTF	2.5			5376	157882959
E120__.APF	2.5	2.4.1.1	96/02/09	2424	182800236
E120__.OPF	2.5	2.4.1.1	96/12/16	4392	1028949
E120__.PTF	2.5			5416	4163415394

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EA30__.APF	2.5	2.2.1.1	95/03/03	2424	4085914737
EA30__.OPF	2.5	2.4.1.1	96/12/16	4392	3636976376
EA30__.PTF	2.5			5456	961864188
EA31__.APF	2.5	2.2.1.2	95/05/18	2424	3318969175
EA31__.OPF	2.5	2.4.1.1	96/12/16	4392	2476514401
EA31__.PTF	2.5			5456	2418701372
EA32__.APF	2.5	2.4.1.1	96/07/22	2424	485461319
EA32__.OPF	2.5	2.4.1.2	96/12/17	4392	2000202368
EA32__.PTF	2.5			5456	2250697129
EA33__.APF	2.5	2.2.1.2	95/05/18	2424	3717495751
EA33__.OPF	2.5	2.4.1.2	96/12/18	4392	3095575631
EA33__.PTF	2.5			5456	1615414795
EA34__.APF	2.5	2.2.1.1	95/03/03	2424	3841819281
EA34__.OPF	2.5	2.4.1.1	96/12/17	4392	1621951917
EA34__.PTF	2.5			5456	1497628431
FGTR__.APF	2.5	2.2.1.2	95/05/18	2424	1529673769
FGTR__.OPF	2.5	2.4.1.1	96/12/17	4392	2339405166
FGTR__.PTF	2.5			5456	3027122185
FK10__.APF	2.5	2.4.1.1	96/09/25	2424	3486213083
FK10__.OPF	2.5	2.4.1.2	96/12/17	4392	2618898831
FK10__.PTF	2.5			5456	2677216693
FK27__.APF	2.5	2.2.1.1	95/03/03	2424	816017215
FK27__.OPF	2.5	2.4.1.1	96/12/17	4392	2408482634
FK27__.PTF	2.5			5356	2644136778
FK28__.APF	2.5	2.3.1.1	95/08/29	2424	2210232602
FK28__.OPF	2.5	2.4.1.1	96/12/17	4392	1631612301
FK28__.PTF	2.5			5456	84507647
FK50__.APF	2.5	2.4.1.1	96/09/03	2424	1792655575
FK50__.OPF	2.5	2.4.1.1	96/12/17	4392	2383672237
FK50__.PTF	2.5			5376	1400625365
FK70__.APF	2.5	2.3.1.1	95/12/04	2424	136378341
FK70__.OPF	2.5	2.4.1.1	96/12/17	4392	3693610998
FK70__.PTF	2.5			5456	479765713
HS25__.APF	2.5	2.2.1.2	95/05/18	2424	4149040591
HS25__.OPF	2.5	2.4.1.1	96/12/17	4392	143364115
HS25__.PTF	2.5			5456	2677364313
L101__.APF	2.5	2.2.1.1	95/03/03	2424	536891197
L101__.OPF	2.5	2.4.1.1	96/12/17	4392	954758010
L101__.PTF	2.5			5456	3350752176
LR35__.APF	2.5	2.3.1.1	95/08/29	2424	4122306455

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LR35__.OPF	2.5	2.4.1.1	96/12/17	4392	1913362062
LR35__.PTF	2.5			5456	1640142299
MD11__.APF	2.5	2.2.1.1	95/05/03	2424	2366528846
MD11__.OPF	2.5	2.4.1.1	96/12/17	4392	401852371
MD11__.PTF	2.5			5456	2502819337
MD80__.APF	2.5	2.4.1.1	96/03/07	2424	2879952194
MD80__.OPF	2.5	2.4.1.3	96/12/17	4392	525590936
MD80__.PTF	2.5			5456	1572962458
MU2___.APF	2.5	2.2.1.1	95/03/03	2424	3805195037
MU2___.OPF	2.5	2.4.1.1	96/12/17	4392	3953587263
MU2___.PTF	2.5			5456	2623210826
ND16__.APF	2.5	2.2.1.1	95/03/03	2424	499246672
ND16__.OPF	2.5	2.4.1.1	96/12/17	4392	958896338
ND16__.PTF	2.5			5336	2790208107
PA28__.APF	2.5	2.2.1.2	95/05/18	2424	3768398948
PA28__.OPF	2.5	2.4.1.1	96/12/17	4392	768653133
PA28__.PTF	2.5			5216	676810906
PA31__.APF	2.5	2.2.1.1	95/03/03	2424	3798401135
PA31__.OPF	2.5	2.4.1.1	96/12/17	4392	218086939
PA31__.PTF	2.5			5356	1423961746
PA34__.APF	2.5	2.2.1.2	95/05/18	2424	3355641935
PA34__.OPF	2.5	2.4.1.1	96/12/17	4392	1958707745
PA34__.PTF	2.5			5236	3461079860
PA42__.APF	2.5	2.4.1.1	96/02/09	2424	832255150
PA42__.OPF	2.5	2.4.1.1	96/12/17	4392	1170395317
PA42__.PTF	2.5			5456	3455260434
PAYE__.APF	2.5	2.2.1.1	95/03/03	2424	545306025
PAYE__.OPF	2.5	2.4.1.1	96/12/17	4392	199686909
PAYE__.PTF	2.5			5416	3146404183
PAZT__.APF	2.5	2.2.1.1	95/03/03	2424	3241430555
PAZT__.OPF	2.5	2.4.1.1	96/12/17	4392	2135491380
PAZT__.PTF	2.5			5296	2326187370
SF34__.APF	2.5	2.2.1.2	95/05/18	2424	2908757350
SF34__.OPF	2.5	2.4.1.1	96/12/17	4392	667499898
SF34__.PTF	2.5			5456	2213273078
SH36__.APF	2.5	2.2.1.2	95/05/18	2424	3871651158
SH36__.OPF	2.5	2.4.1.1	96/12/17	4392	2530529748
SH36__.PTF	2.5			5356	1843395529
SW3___.APF	2.5	2.2.1.1	95/03/03	2424	972905653
SW3___.OPF	2.5	2.4.1.1	96/12/17	4392	3480009057

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SW3___.PTF	2.5			5456	1441052569
TB20__.APF	2.5	2.2.1.2	95/05/18	2424	2917447089
TB20__.OPF	2.5	2.4.1.2	96/12/17	4392	801287659
TB20__.PTF	2.5			5216	1499907537
TU34__.APF	2.5	2.3.1.1	95/11/09	2424	2333637090
TU34__.OPF	2.5	2.4.1.1	96/12/17	4392	3610158451
TU34__.PTF	2.5			5456	4022242593
TU54__.APF	2.5	2.3.1.1	95/06/28	2424	1633764090
TU54__.OPF	2.5	2.4.1.1	96/12/17	4392	2985047776
TU54__.PTF	2.5			5456	1848217136