

B A S I C P R O G R A M M A T E R I A L L I S T

FOR THE IBM

DISK OPERATING SYSTEM

SYSTEM RELEASE 26

THIS IS AN INTEGRATED SYSTEM AND CONTAINS THE FOLLOWING COMPONENTS

Component Name	Change Level	Component Number
.2311 and 2314 Resident Systems	3-10	360N-SV-474
.Assembler D	3-8	360N-AS-465
.Assembler F	3-9	360N-AS-466
.COBOL D	3-10	360N-CB-452
.COBOL DASD Macros	3-1	360N-CB-468
.American National Standard COBOL	3-4	360N-CB-482
.System Control and Basic IOCS	3-10	360N-CL-453
.BTAM	3-9	360N-CQ-469
.QTAM	3-10	360N-CQ-470
.Language Conversion Program	3-4	360N-CV-489
.On Line Test Executive Program	3-7	360N-DN-481
.Model 30 Emulator	3-7	360N-EU-484
.Model 40 Emulator	3-6	360N-EU-485
.System/370 Emulator	3-1	360N-EU-490
.Basic FORTRAN IV	3-9	360N-FO-451
.FORTRAN IV	3-6	360N-FO-479
.Direct Access Method	3-9	360N-IO-454
.Sequential Disk IOCS	3-10	360N-IO-455
.Magnetic Tape IOCS	3-10	360N-IO-456
.ISFMS	3-10	360N-IO-457
.Paper Tape IOCS	3-4	360N-IO-458
.Compiler I/O Modules	3-10	360N-IO-476
.Magnetic Character Reader IOCS	3-10	360N-IO-477
.Optical Character Reader IOCS	3-10	360N-IO-478
.FORTRAN IV Library Subprograms	3-6	360N-LM-480
.PL/I	3-10	360N-PL-464
.Autotest	3-3	360N-PT-459
.Report Program Generator	3-9	360N-RG-460
.Tape Sort/Merge	3-8	360N-SM-400
.Disk Sort/Merge	3-8	360N-SM-450
.Tape/Disk Sort/Merge	3-6	360N-SM-483
.Group 1 Utilities - Unit Record Disk	3-10	360N-UT-461
.Group 2 Utilities - Tape	3-10	360N-UT-462
.Group 3 Utilities - Data Cell	3-7	360N-UT-463
.MPS Utility Macros	3-10	360N-UT-471
.Vocabulary File Utility Program	3-3	360N-UT-472

THE FOLLOWING LIST CONSTITUTES THE COMPLETE BASIC PROGRAM MATERIAL ONLY THOSE ITEMS ORDERED ARE ENCLOSED.

DOCUMENTS

IDENTKEY	DESCRIPTION	QUANTITY
BW01-34	BASIC PROGRAM MATERIAL LIST	4 PAGES
BW02-04	ATTACHMENT 1	8 PAGES

THE BASIC PROGRAM MATERIAL LIST IS SUPPLIED TO ANY REQUEST FOR THIS PROGRAM PACKAGE. ATTACHMENT 1 IS SENT TO NEW USERS ONLY.

DISTRIBUTION MEDIA

ALL DISK PACKS AND TAPES HAVE THE VOLUME SERIAL NUMBER 111111 REFER TO SRL PUBLICATION GC24-5033 FOR COMPLETE OPERATING INSTRUCTIONS

EXTERNAL IDENTKEY	MEDIA FORM
BD01-09, BD02-09	IBM 1316 DISK PACKS, 2311 VOLUMES 1 AND 2
BD03-04	IBM 1316 DISK PACK, 2311 VOLUME 3 OPTIONAL
BT01-09	9-TRACK TAPE 2311 VOLUMES 1 AND 2
BT02-04	7-TRACK TAPE 2311 VOLUMES 1 AND 2
BT03-09	9-TRACK TAPE 2311 VOLUME 3 OPTIONAL
BT04-04	7-TRACK TAPE 2311 VOLUME 3 OPTIONAL
BD05-04	IBM 2316 DISK PACK 2314 VOLUME
BT05-09	9-TRACK TAPE 2314 VOLUME
BT07-09, BT08-04	7-TRACK TAPE 2314 VOLUMES 1 AND 2
BT09-04	9-TRACK TAPE 2311 VOLUMES 1, 2, AND 3

EACH TAPE WITH THE EXCEPTION OF BT08, CONTAINS THE INITIALIZE 2311/2314 UTILITY PROGRAM AND A TAPE-TO-DISK RESTORE PROGRAM.

PUBLICATIONS

THE FOLLOWING IBM SYSTEMS REFERENCE LIBRARY PUBLICATIONS ARE AUTOMATICALLY SUPPLIED WHEN THE CORRESPONDING COMPONENTS ARE ORDERED. ADDITIONAL COPIES ARE AVAILABLE THROUGH IBM BRANCH OFFICES.

FORM NO	TNLS	COMPONENTS	TITLE
.GC24-5030-10	.GN33-8682 .GN33-8700	. SYSTEM	. CONCEPTS AND FACILITIES . FOR DOS AND TOS
.GC24-5033-11	.GN33-5434 .GN33-8680	.	. DOS SYSTEM GENERATION
.GC24-5022-11	.GN33-8688	.	. DOS OPERATING GUIDE
.GC24-5074-4	.	.	. DOS MESSAGES

FORM NO	TNLS	COMPONENTS	TITLE
.GC24-5036-7	.	. 360N-IO-456	. DOS SYSTEM CONTROL AND
.	.	. 360N-IO-457	. SERVICE
.	.	. 360N-IO-458	.
.	.	. 360N-SV-474	.
.GC24-5037-10	.GN24-5435	. 360N-IO-476	. DOS SUPERVISOR AND I/O
.	.GN33-8689	. 360N-IO-477	. MACROS
.	.	. 360N-IO-478	.

THE ABOVE LIST CONSTITUTES THE COMPLETE LIST OF BASIC PROGRAM MATERIAL.
 ONLY THOSE ITEMS REQUESTED ARE ENCLOSED.

ITEMS OBSOLETE BY THIS RELEASE.

BW01-33	BW02-03				
BD01-08	BD02-08	BD03-03	BD05-03	BT01-08	BT02-03
BT03-08	BT04-03	BT05-03	BT07-08	BT08-03	BT09-03
GC24-5036-6	GN24-5429		GC24-5073-3		GN24-5432

NEW OR REPLACED ITEMS ADDED.

BW01-34	BW02-04				
BD01-09	BD02-09	BD03-04	BD05-04	BT01-09	BT02-04
BT03-09	BT04-04	BT05-09	BT07-09	BT08-04	BT09-04
GC24-5036-7	GN33-8700				
GN33-8682	GN33-8680	GN33-8688	GC24-5074-4	GN33-8689	

ITEMS DELETED WITH THIS RELEASE.

GC24-3427-7	GN24-5430	GC30-5001-8	GN30-5541
GC28-6515-8	GN28-0595	GC28-6596-4	N28-0588
GC28-6397-2	GN28-0592	GC30-5004-2	N30-5522
N30-5527	N30-5535	GC30-5003-3	N30-5523
N30-5528	N30-5534	GC28-8202-2	GC24-5059-0
N24-5301	GC24-9005-6	GC24-3414-8	GC24-3433-5
N28-0245	GN28-0256	GN28-0407	GC24-5025-5
N28-0253	GN28-0259	GN28-0406	GN28-0430
GC24-5039-1	GC24-5039-0	N24-5142	N24-5181
GC28-6394-2	GN28-0436	GC28-6398-2	GC28-6400-0
GN28-0262	GN28-0270	GN28-0405	GC28-6629-2
GC24-5038-3	GC26-3570-7	GC24-3465-6	GN33-8677
GC24-5042-6	GC24-3438-4	GN33-8085	GC24-3444-4
GN33-8089	GC28-6676-3	GN33-8092	GC27-6940-4
GN33-7012			

ATTACHMENT 1 TO THE BASIC PROGRAM MATERIAL LIST

DOS RESIDENCE

The Disk Operating System is available in both 2311 and 2314 resident formats.

DOS 2311

The 2311 resident DOS is distributed on one of the following device types to users who do not order the Model 40 or System/370 Emulator, American National Standard COBOL, or Autotest.

<u>Quantity</u>	<u>Device Type</u>
2	1316 disk packs (VOLUMES 1 and 2)
1	7-track magnetic tape reel
1	9-track 800 bpi magnetic tape reel
1	9-track 1600 bpi magnetic tape reel

DOS 2311A

The 2311A resident DOS is distributed on one of the following device types to users who do require the Model 40 or System/370 Emulator, American National Standard COBOL or Autotest.

<u>Quantity</u>	<u>Device Type</u>
3	1316 disk packs (VOLUMES 1, 2, and 3)
2	7-track magnetic tape reels
1	9-track 800 bpi magnetic tape reel
1	9-track 1600 bpi magnetic tape reel

DOS 2311B

The 2311B resident DOS is distributed on one of the following device types to users who order the Model 40 or System/370 Emulator, American National Standard COBOL, or Autotest at some time subsequent to ordering DOS 2311.

<u>Quantity</u>	<u>Device Type</u>
1	1316 disk pack (VOLUME 3)
1	7-track magnetic tape reel
1	9-track 800 bpi magnetic tape reel
1	9-track 1600 bpi magnetic tape reel

DOS 2314

The 2314 resident DOS is distributed on one of the following device types.

<u>Quantity</u>	<u>Device Type</u>
1	2316 disk pack
2	7-track magnetic tape reels
1	9-track 800 bpi magnetic tape reel
1	9-track 1600 bpi magnetic tape reel

DOS 2311 VOLUME 1

This 1316 disk pack consists of a DOS System Residence (SYSRES) file which contains a Core Image Library and a Relocatable Library. The contents are summarized in the following list.

Core Image Library

6K Supervisor
System Control and Basic IOCS
Component Transients

Relocatable Library

Assembler D	360N-AS-465
Assembler F	360N-AS-466
COBOL	360N-CB-452
System Control and IOCS	360N-CL-453
BTAM	360N-CQ-469
QTAM	360N-CQ-470
COBOL to ANS COBOL LCP	360N-CV-489
OLTEP	360N-DN-481
Basic FORTRAN IV	360N-FO-451
FORTTRAN IV	360N-FO-479
Compiler I/O Modules	360N-IO-476
FORTTRAN IV Library Subroutines	360N-LM-480
PL/I	360N-PL-464
RPG	360N-RG-460
Tape Sort/Merge	360N-SM-400
Disk Sort/Merge	360N-SM-450
Tape/Disk Sort/Merge	360N-SM-483
Group 1 Utilities - Unit Record Disk	360N-UT-461
Group 2 Utilities - Tape	360N-UT-462
Group 3 Utilities - Data Cell	360N-UT-463
Vocabulary File Utility	360N-UT-472

DOS 2311 VOLUME 2

This 1316 disk pack consists of a DOS System Residence (SYSRES) file which contains a Core Image Library and a Source Statement Library. The contents of these are summarized in the following list.

Core Image Library

6K Supervisor
System Control and Basic IOCS
Component Transients
10K Assembler (Disk work file variant)

Source Statement Library

COBOL and PL/I DASD Macros	360N-CB-468
Supervisor and Basic IOCS	360N-CL-453
BTAM	360N-CQ-469
QTAM	360N-CQ-470
IBM Model 30 Emulator	360N-EU-484
Direct Access Method	360N-IO-454
Consecutive Disk IOCS	360N-IO-455
Consecutive Tape IOCS	360N-IO-456
ISFMS	360N-IO-457
Consecutive Paper Tape IOCS	360N-IO-458
Magnetic Character Reader IOCS	360N-IO-477
Optical Character Reader IOCS	360N-IO-478
PL/I	360N-PL-464
MPS Utility Macros	360N-UT-471
Sample Programs	
System Generation Job Streams	

DOS 2311 VOLUME 3

This 1316 disk pack consists of a DOS System Residence (SYSRES) file, a Private Source Statement Library (SYSSLB) file, and a Private Relocatable Library (SYSRLB) file. The contents of these libraries are summarized in the following list:

Core Image Library (SYSRES)

6k Supervisor
System Control and Basic IOCS
14K Assembler (tape and disk work file variant)
System/370 Emulator Transients

Private Source Statement Library (SYSSLB)

IBM Model 40 Emulator	360N-EU-485
System/370 Emulator	360N-EU-490

Private Relocatable Library (SYSRLB)

American National Standard COBOL	360N-CB-482
System/370 Emulator	360N-EU-490
Autotest	360N-PT-459

DOS 2311 Tape for VOLUMES 1 and 2

One reel of (2400') magnetic tape is distributed in a format suitable for restoring to two 1316 disk packs. The two disk packs will contain the identical systems described for DOS 2311 VOLUMES 1 and 2.

Initialize 2311/2314 Program TM (see note 1) (TM=Tape Mark)
Tape-to-Disk Restore Program (see note 2)
DOS.SYSRES.FILE.VOLUME.1 TM
DOS.SYSRES.FILE.VOLUME.2 TM, TM

DOS 2311A 9-TRACK TAPE FOR VOLUME 3 USERS

One 9-track reel of (2400') magnetic tape is distributed in a format suitable for restoring to three 1316 disk packs. These three disk packs will contain the identical system described for DOS 2311 VOLUMES 1, 2, and 3 above.

Initialize 2311/2314 program TM (see note 1)
Tape-to-Disk Restore Program (see note 2)
DOS.SYSRES.FILE.VOLUME.1 TM
DOS.SYSRES.FILE.VOLUME.2 TM
DOS.SYSRES.FILE.VOLUME.3 TM
DOS.SYSSLB.FILE.VOLUME.3 TM
DOS.SYSRLB.FILE.VOLUME.3 TM, TM

DOS 2311A 7-TRACK TAPE FOR VOLUME 3 USERS

One 7-track reel of (2400') magnetic tape is distributed in a format suitable for restoring to two 1316 disk packs. These two disk packs will contain the identical system described for Volumes 1 and 2 above. A second 7-track reel of (2400') magnetic tape is distributed in a format suitable for restoring to one 1316 disk pack. This third disk pack will contain the identical system described for volume 3 above.

Initialize 2311/2314 Program TM (see note 1)
Tape-to-Disk Restore Program (see note 2)
DOS.SYSRES.FILE.VOLUME.1 TM
DOS.SYSRES.FILE.VOLUME.2 TM
Initialize 2311/2314 Program TM (see note 1)
Tape-to-Disk Restore Program (see note 2)
DOS.SYSRES.FILE.VOLUME.3 TM
DOS.SYSSLB.FILE.VOLUME.3 TM
DOS.SYSRLB.FILE.VOLUME.3 TM, TM

DOS 2314

This 2316 pack consists of a DOS System Residence (SYSRES) file which contains a Core Image Library, a Relocatable Library, and a Source Statement Library. The Core Image Library contains all components listed under the 2311 VOLUME 3 Core Image Library as well as the component transients. The Relocatable and Source Statement Libraries are identical to the combined corresponding libraries of the 2311 VOLUMES 1, 2 and 3 (except for Autotest, which is not supported for 2314's).

The 6K Supervisor is identical to the one distributed with the 2311 System. A user who wishes to perform system generation in a 10K partition should link-edit the 10K Assembler variant prior to using the Assembler.

DOS 2314 9-TRACK TAPE

One 9-track reel of (2400') magnetic tape is distributed in a format suitable for restoring to one 2316 disk pack. This disk pack will contain the identical system described for the 2314 VOLUME above.

Initialize 2311/2314 Program TM (see note 1)
Tape-to-Disk Restore Program (see note 2)
DOS.SYSRES.FILE TM, TM

DOS_2314_7-TRACK_TAPE

Two 7-track reels of (2400') magnetic tape are distributed in a format suitable for restoring to one 2316 disk pack. This disk pack will contain the identical system described for the 2314 VOLUME above.

Initialize 2311/2314 Program TM (see note 1)
Tape-to-Disk Restore Program (see note 2)
DOS.SYSRES.FILE beginning TM, TM
DOS.SYSRES.FILE end TM, TM

Tape-to-Disk Restore Figures

Users who receive the system on magnetic tape should compare the following figures with the printout of the Tape-to-Disk Restore Program on SYSLOG. Each file should restore the number of records indicated.

2311	DOS.SYSRES.FILE.VOLUME.1	15800
2311	DOS.SYSRES.FILE.VOLUME.2	26188
2311	DOS.SYSRES.FILE.VOLUME.3	741
2311	DOS.SYSSLB.FILE.VOLUME.3	10306
2311	DOS.SYSRLB.FILE.VOLUME.3	2755
2314	DOS.SYSRES.FILE	55379

Note 1: The Initialize 2311/2314 program is a tape loadable program. The user has the option to bypass this program if his disk pack has been previously initialized.

Note 2: The Tape-to-Disk 2311/2314 Restore program is a tape loadable program. The user has the option to restore individual files from multiple file tapes.

Library Allocations

The allocations for DOS Release 26 are:

<u>SYSTEM</u>	<u>2311</u>	<u>2311</u>	<u>2311</u>	<u>2314</u>
<u>VOLUME</u>	<u>1</u>	<u>2</u>	<u>3</u>	
Core Image Library	27	32	32	20
Relocatable Library	170			60
Source Library		165		70
Label Cylinder	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>
SYSRES Extent	198	198	33	151
SYSSLB Extent			70	
SYSRLB Extent			50	

The following statements illustrate the file names, extents, and library allocations.

DOS 2311

```
// DLBL IJSYSRS, 'DOS.SYSRES.FILE.VOLUME.1', 99/365, SD
// EXTENT SYSRES, 111111, 1, 1, 001, 1989
// ALLOC CL=27(10), RL=170(10), SL=0(0)
```

```
// DLBL IJSYSRS, 'DOS.SYSRES.FILE.VOLUME.2', 99/365, SD
// EXTENT SYSRES, 111111, 1, 1, 001, 1989
// ALLOC CL=32(10), RL=0(0), SL=165(10)
```

```
// DLBL IJSYSRS, 'DOS.SYSRES.FILE.VOLUME.3', 99/365, SD
// EXTENT SYSRES, 111111, 1, 1, 001, 339
// ALLOC CL=32(10), RL=0(0), SL=0(0)
```

```
// DLBL IJSYSSL, 'DOS.SYSSLB.FILE.VOLUME.3', 99/365, SD
// EXTENT SYSSLB, 111111, 1, 1, 340, 700
// NEWVOL SL=70(10)
```

```
// DLBL IJSYSRL, 'DOS.SYSRLB.FILE.VOLUME.3', 99/365, SD
// EXTENT SYSRLB, 111111, 1, 1, 1040, 500
// NEWVOL RL=50(10)
```

DOS 2314

```
// DLBL IJSYSRS, 'DOS.SYSRES.FILE', 99/365, SD
// EXTENT SYSRES, 111111, 1, 1, 001, 3039
// ALLOC CL=20(10), RL=60(10), SL=70(10)
```

DOS 2311 WORKFILES (VOLUMES 1, 2, and 3)

DOS2311 Volumes 1, 2, and 3 have the following standard labels. Volume 3 also has the standard labels described above for SYSLB and SYSRLB.

```
// DLBL IJSYS01,'SYSTEM WORK FILE NO. 1',99/365,SD
// EXTENT SYS001,111111,8,1,10,640,4
// DLBL IJSYS02,'SYSTEM WORK FILE NO. 2',99/365,SD
// EXTENT SYS002,111111,8,1,15,640,9
// DLBL IJSYS03,'SYSTEM WORK FILE NO. 3',99/365,SD
// EXTENT SYS003,111111,1,1,1290,700
// DLBL IJSYSLN,'SYSTEM WORK FILE NO. 0',99/365,SD
// EXTENT SYSLNK,111111,1,1,1290,700
```

DOS 2314 WORK FILES

DOS 2314 has the following labels:

```
// DLBL IJSYS01,'SYSTEM WORK FILE NO. 1',99/365,SD
// EXTENT SYS001,111111,8,1,3040,300,9
// DLBL IJSYS02,'SYSTEM WORK FILE NO. 2',99/365,SD
// EXTENT SYS002,111111,8,1,3050,300,19
// DLBL IJSYS03,'SYSTEM WORK FILE NO. 3',99/365,SD
// EXTENT SYS003,111111,1,1,3640,300
// DLBL IJSYSLN,'SYSTEM WORK FILE NO. 0',99/365,SD
// EXTENT SYSLNK,111111,1,1,3640,300
```