

## Summary of Environment Division File Statements

Organization: Sequential; Device Class: Card Reader

### Required Entries

System-name	UR[-xxxx]-S-DDname
LABEL RECORDS	OMITTED
OPEN	INPUT
CLOSE	[ LOCK ]
Access Verbs	READ [ INTO ] AT END

### Optional Entries

RESERVE	{ <i>integer</i>   NO }
ACCESS	SEQUENTIAL
Other ENVIRONMENT DIVISION clauses	SAME [ RECORD ] AREA RERUN
BLOCK CONTAINS <sup>1</sup>	[ <i>integer</i> TO ] <i>integer</i>
RECORDING MODE	{ F   U   V }
USE	ERROR

Notes: 1 Not for U (undefined) recording mode.

Organization: Sequential; Device Class: Card Punch

### Required Entries

System-name	UR[-xxxx]-S-DDname
LABEL RECORDS	OMITTED
OPEN	OUTPUT
CLOSE	[ LOCK ]
Access Verbs	WRITE [ FROM ] [ { BEFORE   AFTER } ADVANCING ] [ AFTER POSITIONING ]

### Optional Entries

APPLY	WRITE-ONLY (V-mode only)
RESERVE	{ <i>integer</i>   NO }
ACCESS	SEQUENTIAL
Other ENVIRONMENT DIVISION clauses	SAME [ RECORD ] AREA RERUN
BLOCK CONTAINS <sup>1</sup>	[ <i>integer</i> TO ] <i>integer</i>
RECORDING MODE	{ F   U   V }
USE	ERROR

Notes: 1 Not for U (undefined) recording mode.

## Summary of Environment Division File Statements

Organization: Sequential; Device Class: Line Printer

### Required Entries

System-name	UR[-xxxx]-S-DDname
LABEL RECORDS	OMITTED
OPEN	OUTPUT
CLOSE	[ LOCK ]
Access Verbs	WRITE [ FROM ] [ { BEFORE   AFTER } ADVANCING ] [ AFTER POSITIONING ] END-OF-PAGE

### Optional Entries

APPLY	WRITE-ONLY (V-mode only)
RESERVE	{ <i>integer</i>   NO }
ACCESS	SEQUENTIAL
Other ENVIRONMENT DIVISION clauses	SAME [ RECORD ] AREA RERUN
BLOCK CONTAINS <sup>1</sup>	[ <i>integer</i> TO ] <i>integer</i>
RECORDING MODE	{ F   U   V }
USE	ERROR REPORTING

Notes: 1 Not for U (undefined) recording mode.

## Summary of Environment Division File Statements

Organization: Sequential; Device Class: Tape

### Required Entries

System-name	UT[-xxxx]-S-DDname	
LABEL RECORDS	{ STANDARD   OMITTED   <i>data-name</i> [ TOTALING - TOTALLED ] }	
OPEN	INPUT	
	[ REVERSED ] [ NO REWIND ] [ LEAVE ] [ REREAD ] [ DISP ]	
	OUTPUT	
	[ NO REWIND ] [ LEAVE ] [ REREAD ] [ DISP ]	
CLOSE	[ REEL ] [ LOCK ] [ NO REWIND ] [ POSITIONING ] [ DISP ]	
Access Verbs	READ [ INTO ]	(when OPEN is INPUT)
	AT END	
	WRITE [ FROM ]	(when OPEN is OUTPUT)
	[ { BEFORE   AFTER } ADVANCING ] [ AFTER POSITIONING ]	

### Optional Entries

APPLY <sup>1</sup>	WRITE-ONLY (V-mode only)	
RESERVE	{ <i>integer</i>   NO }	
ACCESS	SEQUENTIAL	
Other ENVIRONMENT DIVISION clauses	SAME [ RECORD ] AREA RERUN MULTIPLE FILE TAPE	
BLOCK CONTAINS <sup>2</sup>	[ <i>integer</i> TO ] <i>integer</i>	
RECORDING MODE	{ F   U   V   S }	
USE	LABEL	(when OPEN is INPUT)
	ERROR	
	LABEL	(when OPEN is OUTPUT)
	ERROR REPORTING	

Notes: 1 Has meaning only for files opened OUTPUT.

2 Not for U (undefined) recording mode.

## Summary of Environment Division File Statements

Organization: Sequential; Device Class: Mass Storage

### Required Entries

System-name	{ UT   DA }[-xxxx]-S-DDname	
LABEL RECORDS	{ STANDARD   OMITTED   <i>data-name</i> [ TOTALING - TOTALLED ] }	
OPEN	INPUT OUTPUT I-O	
CLOSE	[ UNIT ] [ LOCK ]	(when OPEN is INPUT)
	[ UNIT ] [ LOCK ]	(when OPEN is OUTPUT)
	[ LOCK ]	(when OPEN is I-O)
Access Verbs	READ [ INTO ] AT END	(when OPEN is INPUT)
	WRITE <sup>1</sup> [ FROM ] INVALID KEY	(when OPEN is OUTPUT)
	WRITE <sup>1</sup> [ FROM ] [ { BEFORE   AFTER } ADVANCING ] [ AFTER POSITIONING ]	
	READ [ INTO ] AT END	(when OPEN is I-O)
	WRITE <sup>2</sup> [ FROM ] INVALID KEY REWRITE <sup>2</sup> [ FROM ] [ INVALID KEY ]	

### Optional Entries

APPLY <sup>3</sup>	RECORD-OVERFLOW (not for S-mode) WRITE-ONLY (V-mode only)	
RESERVE	{ <i>integer</i>   NO }	
ACCESS	SEQUENTIAL	
Other ENVIRONMENT DIVISION clauses	SAME [ RECORD ] AREA RERUN	
BLOCK CONTAINS <sup>4</sup>	[ <i>integer</i> TO ] <i>integer</i>	
RECORDING MODE	{ F   U   V   S }	
USE	AFTER LABEL ERROR	(when OPEN is INPUT)
	AFTER LABEL ERROR REPORTING	(when OPEN is OUTPUT)
	AFTER LABEL ERROR	(when OPEN is I-O)

Notes: 1 Create (load).

2 Update.

3 Has meaning only for files opened OUTPUT.

4 Not for U (undefined) recording mode.

## Summary of Environment Division File Statements

Organization: Indexed; Device Class: Mass Storage; Access: Sequential

### Required Entries

System-name	DA[-xxxx]-I-DDname
KEY	RECORD NOMINAL
LABEL RECORDS	STANDARD
OPEN	INPUT OUTPUT I-O
CLOSE	[ LOCK ]
Access Verbs	READ [ INTO ] (when OPEN is INPUT) AT END START <sup>1</sup> [ INVALID KEY ] START <sup>2</sup> USING KEY [ INVALID KEY ] WRITE <sup>3</sup> [ FROM ] (when OPEN is OUTPUT) [ INVALID KEY ] READ [ INTO ] (when OPEN is I-O) AT END REWRITE <sup>4</sup> [ FROM ] [ INVALID KEY ] START <sup>1</sup> [ INVALID KEY ] START <sup>2</sup> USING KEY [ INVALID KEY ]

### Optional Entries

RESERVE	{ <i>integer</i>   NO }
Other ENVIRONMENT DIVISION clauses	SAME [ RECORD ] AREA RERUN
BLOCK CONTAINS	<i>Integer</i>
RECORDING MODE	F
USE	ERROR

Notes: 1 NOMINAL clause required on SELECT.

2 NOMINAL clause optional on SELECT.

3 Create (load).

4 Update

## Summary of Environment Division File Statements

Organization: Indexed; Device Class: Mass Storage; Access: Random

### Required Entries

System-name	DA[-xxxx]-I-DDname	
KEY	RECORD NOMINAL	
LABEL RECORDS	STANDARD	
OPEN	INPUT I-O	
CLOSE	[ LOCK ]	
Access Verbs	READ [ INTO ] INVALID KEY	(when OPEN is INPUT)
	READ [ INTO ] INVALID KEY WRITE <sup>1</sup> [ FROM ] [ INVALID KEY ] REWRITE <sup>2</sup> [ FROM ] [ INVALID KEY ]	(when OPEN is I-O)

### Optional Entries

APPLY <sup>3</sup>	REORG-CRITERIA CORE-INDEX	
RESERVE	NO	
Other ENVIRONMENT DIVISION clauses	SAME [ RECORD ] AREA RERUN ON RECORDS	(when OPEN is INPUT)
	SAME [ RECORD ] AREA TRACK-AREA RERUN ON RECORDS	(when OPEN is I-O)
BLOCK CONTAINS	<i>integer</i>	
RECORDING MODE	F	
USE	ERROR	

Notes: 1 Add.

2 Update.

3 Has meaning only for files opened OUTPUT.

## Summary of Environment Division File Statements

Organization: Direct; Device Class: Mass Storage; Access: Sequential

### Required Entries

System-name	DA[-xxxx]-D-DDname	
KEY	[ ACTUAL ]	(required when OPEN is OUTPUT)
LABEL RECORDS	{ STANDARD   data-name }	
OPEN	INPUT	
	OUTPUT	
CLOSE	[ UNIT ] [ LOCK ]	
Access Verbs	READ [ INTO ] AT END	(when OPEN is INPUT)
	WRITE <sup>1</sup> [ FROM ] INVALID KEY	(when OPEN is OUTPUT)

### Optional Entries

APPLY <sup>2</sup>	RECORD-OVERFLOW <sup>3</sup>	
Other ENVIRONMENT DIVISION clauses	SAME [ RECORD ] AREA RERUN	(when OPEN is INPUT)
	SAME [ RECORD ] AREA TRACK-LIMIT RERUN	(when OPEN is OUTPUT)
RECORDING MODE	{ F   U   V   S }	
USE	AFTER LABEL ERROR	

Notes: 1 Create (load).

2 Has meaning only for files opened OUTPUT.

3 Only for F (fixed) recording mode.

## Summary of Environment Division File Statements

Organization: Direct; Device Class: Mass Storage; Access: Random

<b>Required Entries</b>	
System-name	DA[-xxxx]-D-DDname
KEY	ACTUAL
LABEL RECORDS	{ STANDARD   data-name }
OPEN	INPUT
	OUTPUT
	I-O
CLOSE	[ LOCK ]
Access Verbs	SEEK (when OPEN is INPUT)
	READ [ INTO ] INVALID KEY
	SEEK (when OPEN is OUTPUT)
	WRITE <sup>1</sup> [ FROM ] INVALID KEY
	SEEK (when OPEN is I-O)
	READ [ INTO ] INVALID KEY
	WRITE <sup>2</sup> [ FROM ] INVALID KEY
<b>Optional Entries</b>	
APPLY <sup>3</sup>	RECORD-OVERFLOW <sup>4</sup>
Other ENVIRONMENT DIVISION clauses	SAME [ RECORD ] AREA (when OPEN is INPUT)
	RERUN ON RECORDS
	SAME [ RECORD ] AREA (when OPEN is OUTPUT)
	TRACK-LIMIT
	RERUN ON RECORDS
	SAME [ RECORD ] AREA (when OPEN is I-O)
	RERUN ON RECORDS
RECORDING MODE	{ F   U   V   S }
USE	AFTER LABEL
	ERROR

Notes: 1 Create (load).

2 Update and Add.

3 Has meaning only for files opened OUTPUT.

4 Only for F (fixed) recording mode.



## Summary of Environment Division File Statements

Organization: Relative; Device Class: Mass Storage; Access: Sequential

### Required Entries

System-name	DA[-xxxx]-R-DDname	
KEY	[ NOMINAL ]	
LABEL RECORDS	{ STANDARD   <i>data-name</i> }	
OPEN	INPUT	
	OUTPUT	
CLOSE	[ UNIT ] [ LOCK ]	
Access Verbs	READ [ INTO ] AT END	(when OPEN is INPUT)
	WRITE <sup>1</sup> [ FROM ] INVALID KEY	(when OPEN is OUTPUT)
<b>Optional Entries</b>		
Other ENVIRONMENT DIVISION clauses	SAME [ RECORD ] AREA RERUN	(when OPEN is INPUT)
	APPLY RECORD-OVERFLOW	(when OPEN is OUTPUT)
RECORDING MODE	F	
USE	AFTER LABEL ERROR	

Notes: 1 Create (load).

## Summary of Environment Division File Statements

Organization: Relative; Device Class: Mass Storage; Access: Random

### Required Entries

System-name	DA[-xxxx]-R-DDname	
KEY	NOMINAL	
LABEL RECORDS	{ STANDARD   <i>data-name</i> }	
OPEN	INPUT	
	I-O	
CLOSE	[ LOCK ]	
Access Verbs	READ [ INTO ] INVALID KEY	(when OPEN is INPUT)
	READ [ INTO ] INVALID KEY REWRITE <sup>2</sup> [ FROM ] INVALID KEY	(when OPEN is OUTPUT)

### Optional Entries

Other ENVIRONMENT DIVISION clauses	SAME [ RECORD ] AREA RERUN ON RECORDS	(when OPEN is INPUT)
	APPLY RECORD-OVERFLOW	(when OPEN is OUTPUT)
RECORDING MODE	F	
USE	AFTER LABEL ERROR	

Notes: 1 Create (load).  
2 Update.

## Summary of Environment Division File Statements

Card Punch .....	1
Card Reader .....	1
DASD, Direct, Random .....	8
DASD, Direct, Sequential .....	7
DASD, Indexed (ISAM), Random .....	6
DASD, Indexed (ISAM), Sequential .....	5
DASD, Relative, Random .....	10
DASD, Relative, Sequential .....	9
DASD, Sequential .....	4
Line Printer .....	2
Tape .....	3