



## Systems Reference Library

### **IOCS Specifications IBM 1460 with IBM 1448 (1401/1460 Communications IOCS-1448/DDC)**

This publication supplements IOCS Specifications for IBM 1440 with IBM 1448, Form C24-3024, with minor modifications that allow this programming system to be used with IBM 1460-1448 systems.

Major Revision (May 1964)

This edition, C24-3047-2, obsoletes C24-3047-1.

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IOCS for the IBM 1440-1448 requires minor modifications to allow its use with IBM 1460-1448 systems.

The programmer should be thoroughly familiar with these publications:

Autocoder (on Disk) Specifications for IBM 1401 and 1460, Form C24-1486  
Input/Output Control System (on Disk) Specifications for IBM 1401 and 1460,  
 Form C24-1489  
IBM 1448 Transmission Control Unit, Form A24-3010  
IOCS Specifications for IBM 1440 with IBM 1448, Form C24-3024

Modifications to Form C24-3024 that allow its use with 1460 systems are described in the following sections.

### Machine Functions

The IBM 1460 can provide on-line service to other data processing systems. By using the direct data channel feature, the 1460 can be connected to another 1460 or a 1401 or a 1440 system.

### MACHINE REQUIREMENTS

IOCS for the IBM 1460-1448 is assembled on a 1460 system, using Autocoder (on IBM 1311) for IBM 1401 and 1460. Machine requirements for this assembly are the same as for assembly of any 1460 Autocoder program.

The minimum system requirements for running an object program are:

IBM 1441 and IBM 1461 with:  
 Store Address Register and Indexing Feature  
 Transmission Control Unit Attachment  
 IBM 1447 Console Model 1 with IBM 1447 Inquiry Unit Model 4  
 IBM 1448 Transmission Control Unit  
 IBM 1402 Card Read-Punch (required to load object program).

### USER ROUTINES

For any of the user routines, an unchanged end-of-block status will reinitiate the routine, but not if direct data channel IOCS is being used.

### DESCRIPTIVE ENTRIES

If the DIOCSORG entry is omitted, the processor automatically establishes the origin at address 334.

### PROGRAMMING CONSIDERATIONS

The processing overlap feature cannot be used with IOCS for the IBM 1460-1448.

When the DIOCS entries specify that an IBM 1448 is included in the system, IOCS operations for the IBM 1311, 1403, and magnetic tape units are altered to handle real-time operations.

An overflow condition can occur when execution time for an I/O operation exceeds 130.5 milliseconds (see Interrupt Timing, IBM 1448 Transmission Control Unit, Form A24-3010).

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