

# Software Product Description

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**PRODUCT NAME: INSTRUMENT Bus Subroutines, Version 2.1**

**SPD 12.14.3**

## **DESCRIPTION:**

INSTRUMENT Bus Subroutines (IBS) allows the user to control the IEEE Bus through commands that control data transfer via the IB11 or IBV11-A. It also allows the user to specify a FORTRAN completion routine that will be entered asynchronously when any device on the IEEE bus asserts the Service Request Bus Line. This software supports the IB11 or IBV11 as controller-in-charge of all bus activity.

IBS consists of:

- Library of FORTRAN callable subroutines to support the IB11 and IBV11-A interface from an IEEE-488-1978 General-Purpose Instrument Bus
- Special device handler called by routines in the library

IBS runs under the RT-11 Operating System.

## **MINIMUM HARDWARE REQUIRED:**

Any valid RT-11 system configuration with at least 32K bytes of memory, and one of the following:

IBV11-A IEEE bus for Q-BUS  
IB11 IEEE bus for UNIBUS

## **OPTIONAL HARDWARE:**

Up to a system total of eight IB11 or IBV11-A boards

Each interface operates as the system controller-in-charge; thus, there can be only one IBV11-A per IEEE bus.

**NOTE:** The software can communicate through only one unit at a time, although SRQ processing can be active on all units simultaneously.

## **PREREQUISITE SOFTWARE:**

RT-11 Operating System, Version 4.0 with FORTRAN IV/RT-11, Version 2.5

## **OPTIONAL SOFTWARE:**

None

## **TRAINING CREDITS:**

None

## **SUPPORT CATEGORY:**

CUSTOMER SUPPORTED

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**ADDITIONAL SERVICES:**

None