

**ARI Contractor Report 97-10**

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**Modifying the Computerized Testing System**

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14. ABSTRACT ( <i>Maximum 200 words</i> ):  The following changes were made to the existing Computerized Testing system: a) Modified to use a computer mouse and joystick input devices. The calibration procedures and instruction screens were modified to function correctly with these new devices, b) The One-Hand Tracking test was added to the battery, and c) Program modified to recycle to a new examinee at the conclusion of testing. Changes to the source code were documented.					
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## Final Report: Modifying the Computerized Testing System

1. **Purpose:** The objective of the work to be performed is to enhance the existing Computerized Testing System to be capable of receiving input from a computer mouse and joystick. As a result of adding these two devices to the list of potential input devices, it will be necessary to modify peripheral code including calibration procedures and instruction screens.

### 2. **Technical Objectives Met:**

a. Given the cost of each response pedestal with the required interface card is nearly \$1100, it is more cost effective and simple to adapt the existing test to a computer mouse and joystick input device. This was accomplished; the testing system now operates with a mouse or a joystick device. Calibration procedures and instruction screens were modified as needed.

b. Added the One-Hand Tracking test to the battery.

c. Finally, the battery was modified to prompt for a new examinee once an examinee has finished testing. This eliminated the need to re-execute the program for each examinee.

d. Provided documentation on changes to the program source code.

3. **Summary:** All objectives were met.