

## 10.1 Testing for Division C

### 10.1.1 Personnel

The security testing team shall consist of at least **two** individuals with bachelor degrees in Computer Science or the equivalent. Team members shall be able to follow test plans prepared by the system developer and suggest additions, shall be familiar with the *flaw hypothesis* or equivalent security testing methodology, and shall have assembly level programming experience. Before testing begins, the team members shall have functional knowledge of, and shall have completed the system developer's internals course for, the system being evaluated.

### 10.1.2 Testing

The team shall have "hands-on" involvement in an independent run of the tests used by the system developer. The team shall independently design and implement at least five system-specific tests in an attempt to circumvent the security mechanisms of the system. The elapsed time devoted to testing shall be at least one month and need not exceed three months. There shall be no fewer than twenty hands-on hours spent carrying out system **developer-defined** tests and test **team-defined** tests.

## 10.2 Testing for Division B

### 10.2.1 Personnel

The security testing team shall consist of at least two individuals with bachelor degrees in Computer Science or the equivalent and at least one individual with a master's degree in Computer Science or equivalent. Team members shall be able to follow test plans prepared by the system developer and suggest additions, shall be conversant with the *flaw hypothesis* or equivalent security testing methodology, shall **be fluent in the TCB implementation language(s)**, and shall have assembly level programming experience. Before testing begins, the team members shall have functional knowledge of, and shall have completed the system developer's internals course for, the system being evaluated. At least one team member shall have previously completed a security test on another system.

### 10.2.2 Testing

The team shall have "hands-on" involvement in an independent run of the test package used by the system developer to test security-relevant hardware and software. The team shall independently design and implement at least fifteen system-specific tests in an attempt to circumvent the security mechanisms of the system. The elapsed time devoted to testing shall be at least two months and need not exceed four months. There shall be no fewer than thirty hands-on hours per team member spent carrying out system developer-defined tests and test **team-defined** tests.