

Root

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graph LR; Root((Root)) --> A[Incomplete Parameter Validation]; Root --> B[Inconsistent Parameter Validation]; Root --> C[Implicit Sharing of Privileged/Confidential Data]; Root --> D[Asynchronous Validation/Inadequate Serialization]; Root --> E[Inadequate Identification/Authentication/Authorization]; Root --> F[Violable Prohibition/Limit]; Root --> G[Exploitable Logic Error];
```

### Incomplete Parameter Validation

Failing to check that a parameter used as an array index is in the range of the array

### Inconsistent Parameter Validation

If a routine allowing shared access to files accepts blanks in a file name, but no other file manipulation routine (such as a routine to revoke shared access) will accept them

### Implicit Sharing of Privileged/Confidential Data

Sending information by modulating the load average of the system

### Asynchronous Validation/Inadequate Serialization

Checking a file for access permission and opening it non-atomically, thereby allowing another process to change the binding of the name to the data between the check and the open

### Inadequate Identification/Authentication/Authorization

Running a system program identified only by name, and having a different program with the same name executed

### Violable Prohibition/Limit

Being able to manipulate data outside one's protection domain

### Exploitable Logic Error

Preventing a program from opening a critical file, causing the program to execute an error routine that gives the user unauthorized rights.