

Infection Code Analysis

Original Code

```
Int main(int argc, char** argv)
{
    for (;;)                # This is a forever loop
        system(argv[0]);    # Runs argv[0] in the system command prompt
                            # argv[0] is itself so it runs its own file repeatedly,
                            # exponentially growing until all memory is used
}
```

This infectious code is intended to exponentially grow on its own system, repeatedly opening and running, creating new instances of itself repeatedly. When running it on the VM, it was able to run until it was unable to allocate memory to the process; this however does not crash the VM as it has memory allocated specifically to the OS to prevent crashes. However, an unprotected system may result in freezing or crashing.