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### Lab 6 – Safety and Security

GraphicsMagick, an image processing system, had a denial-of-service vulnerability where a null pointer was being dereferenced while transferring JPEG scanlines in the `ReadOneJNGImage` function under `coders/png.c` in GraphicsMagick 1.3.26. It is reported that the issue was related to a `PixelPacket` pointer as there were no conditional checks in place to see if the `PixelPacket` pointer was null. If this were made in Rust, the compiler would have complained that there is a chance that a null pointer is being dereferenced and it would have not compile.

URL: <http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-15930>