

Suresec security advisory 2 9th May 2005 CVE ID: CAN-2005-1461

Remote root vulnerability in Ethereal.

About ethereal:

Ethereal is a widely used network packet capturing utility which has support for over 700 network protocols.

Vulnerability summary:

Ethereal has a dissector for the distcc network protocol. A stack based bufferoverflow was discovered in parsing argv, serr and sout messages.

Vulnerable code:

```
static void dissect distcc(tvbuff t *tvb, packet info *pinfo, proto tree
*parent tree)
        char token[4];
        quint32 parameter;
        while(1){
             tvb_memcpy(tvb, token, offset, 4);
             sscanf(tvb_get_ptr(tvb, offset, 8), "%08x", &parameter);
             } else if(!strncmp(token, "ARGV", 4)){
               offset=dissect_distcc_argv(tvb, pinfo, tree, offset, parameter);
             . . .
        }
}
static int dissect_distcc_argv(tvbuff_t *tvb, packet_info *pinfo _U_,
                        proto tree *tree, int offset, gint parameter)
{
        char argv[256];
        int argv_len;
        gint len=parameter;
       argv len=len>255?255:len;
       tvb memcpy(tvb, argv, offset, argv len);
```

When given a negative value for parameter the bounds check will be bypassed and an overflow in memcpy occurs.

Impact:

When properly exploited this yields remote root.

Affected versions:

This vulnerability affects Ethereal version 0.9.13 up untill 0.10.10.

Suggested Recommendations:

Turn off support for distcc or update to a newer version of ethereal.

Credits:

Ilja van Sprundel found this vulnerability.

About us:

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Our consultants have pioneered in the field of security research and have closely worked with leading software companies and service providers to mitigate risks and fix a number of critical vulnerabilities, suresec also works closely with a number of open source companies to provide them with a source code auditing and technical consultancy. We have a strong team consultants spread across Europe, the United States of America And Australia specializing in security consulting.