



```
fcomplex RCmul(float x, fcomplex c;
float w;
fcomplex c;
c.r=x*a.r;
c.i=x*a.i;
return c;
}
if ((z.r == 0.0) && (z.i == 0.0))
{
c.r=0.0;
c.i=0.0;
}
else
{
w = sqrt(z.r*z.r + z.i*z.i);
c.r = z.r/w;
c.i = z.i/w;
}
}
fcomplex Cinv( fcomplex z)
{
fcomplex c;
c.r = z.r / (z.r*z.r + z.i*z.i);
c.i = -z.i / (z.r*z.r + z.i*z.i);
}
```

nci Full Lifecycle Enterprise Support Services

NCI Facts

- Our support methodology encompasses the full spectrum of lifecycle support, incorporating the discipline of the Forsberg and Mooz "V" model and guidance from the ITIL and CMMI frameworks.
- Our methodology encourages open collaboration between developers and operators, thereby driving efficient system implementation and sustainment efficiencies.
- We have successfully leveraged our methodology for a number of customers, tailoring specific processes to meet mission-specific needs and Federal/Department of Defense (DoD) requirements.

As Federal and DoD enterprise systems become more technically complex and mission critical, innovative approaches to traditional lifecycle support services must be leveraged to drive costs down and enhance system capabilities. We have aligned a traditional "V" model approach (to define the design, development, transition lifecycle stages)



with ITIL- and CMMI-based practices (to enhance the model's attention to performance metrics and continuous improvement) and a DevOps methodology (to encourage developer/operator collaboration for improved sustainability and functionality).

Integrating the structure of the ITIL framework within the "V" model allows us to further leverage the synergies between those technical frameworks, especially for shared strategy, design, transition, and operation efforts. We have developed and evolved processes within each of these four phases, thereby ensuring traditional ITIL-based

concepts, such as change management, configuration management, service level management, and others, are fully incorporated into system lifecycles. In addition, our attention to performance metrics introduced through both the CMMI and ITIL frameworks ensures that our processes and staff efficiently support all lifecycle phases and that when opportunities for service improvements are identified, there is an approach to integrating them.

As an extension of continual service improvement, we further integrate the DevOps model into our lifecycle methodology to promote a cohesive collaboration between development and operations teams. As new systems are deployed and mature, this collaboration becomes critical in ensuring that daily system use and sustainment provide relevant feedback as to how future releases will be designed.

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