



# WEBCOM-G

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Working group Workflow  
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## WEBCOM-G : (1/4)

### NUI Galway, University College Cork, project funded by Science Foundation Ireland

WebCom-G is a cross-platform distributed computing engine based on the condensed graph model.

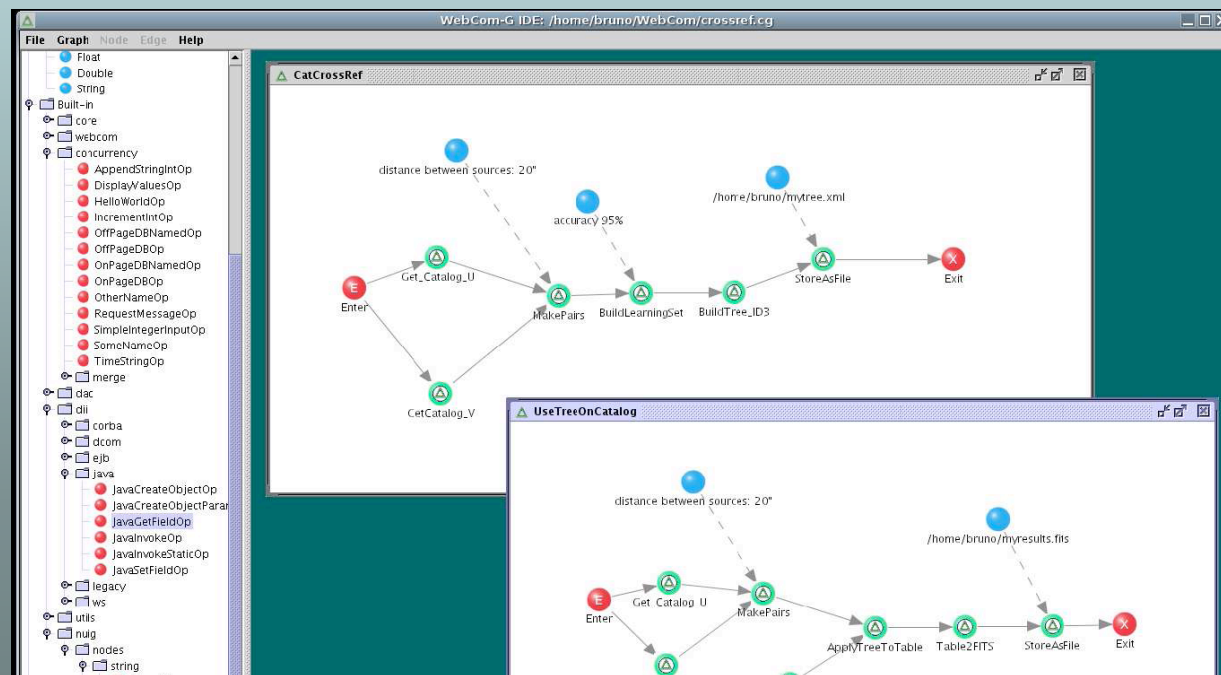
Developed as an interface to Ireland's national grid, it offers both a convenient grid access for heterogeneous applications, as well as an ad hoc distributed platform for smaller internal projects or inter-laboratory cooperation.

In the context of astronomical data mining, the provided framework enables convenient design of distributed applications across several sites or simply locally distributed.

**Main interface to Ireland's national grid.**

## WEBCOM-G : (2/4)

It is a cross-platform solution due to a Java implementation,  
and provides a graphical workflow designer.





## WEBCOM-G : (3/4)

While load-balancing algorithms generally target nodes to hosts, it is possible to manually target a graph section to a physical machine.



## WEBCOM-G : (4/4)

- While WebCom-G is still under work, most functionalities are already implemented.
- Node libraries already provide the functionality to start local applications system. With the recent implementation of networking autodetection, the software is now extremely quick to deploy, providing a cheap and easy way to distribute jobs and use available processing power from desktop machines.
- Major developments underway are in regards to Grid access.
- While it is possible with the basic infrastructure to integrate grid job submissions in a workflow.