## Example: resource handler Problem: Write a protected object One\_Resource that handles an exclusive resource. - The protected object should have two entries, Acquire and Release. - Via entry Acquire a task should be able to request access to the resource. If the resource is already being used, the task calling Acquire should be blocked. - Via entry Release a task should be able to notify that it no longer needs the resource.

```
Resource handler for one resource

:
R: One_Resource; -- instance of the resource

task User1, User2; -- tasks using the resource

task body User1 is begin
R. Acquire; -- statements using the resource

end Üser; -- statements using the resource

R. Release; -- statements using the resource

R. Acquire; -- statements using the resource

R. Release; -- statements using the resource
```

## Protected type One\_Resource is entry Acquire; procedure Release; private Busy: Boolean := false; end One\_Resource is entry Acquire when not Busy is begin Busy := true; end Acquire; procedure Release is begin Busy := false; end Release; end One\_Resource; :