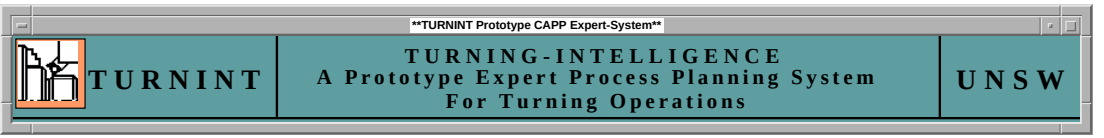
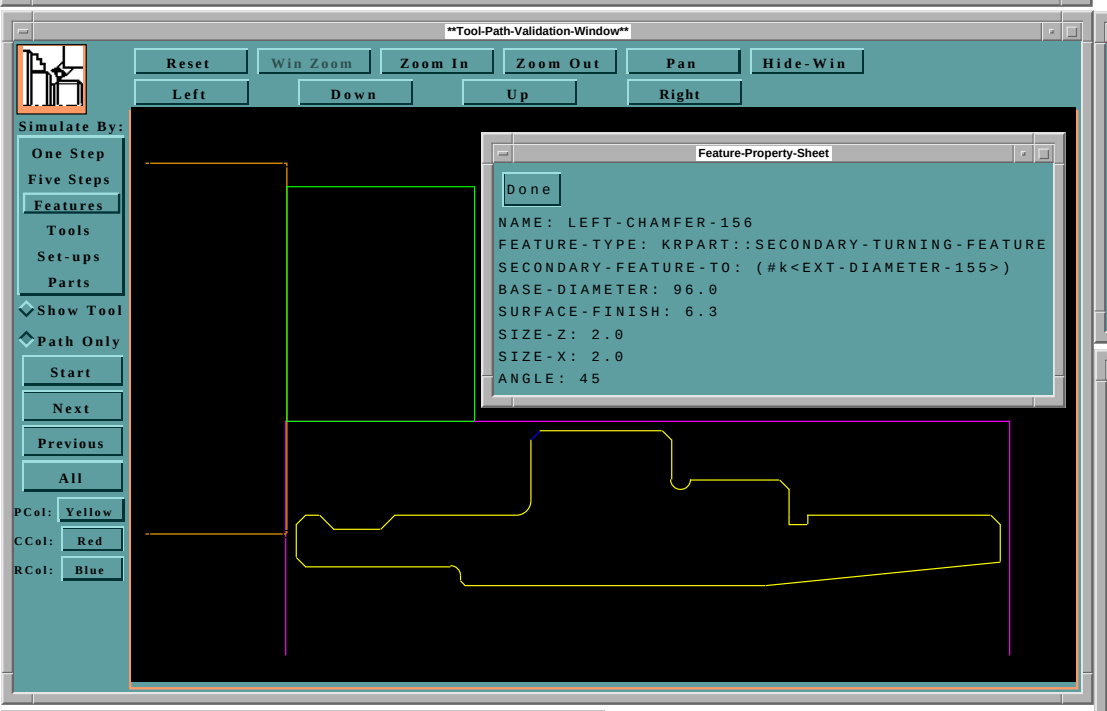
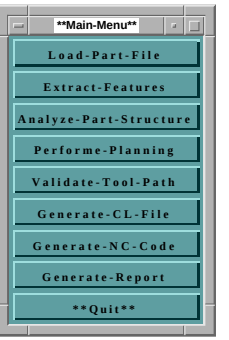
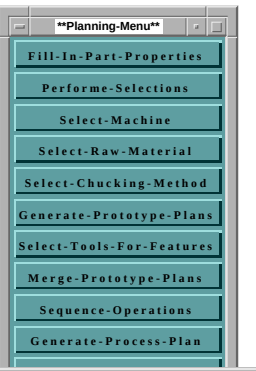
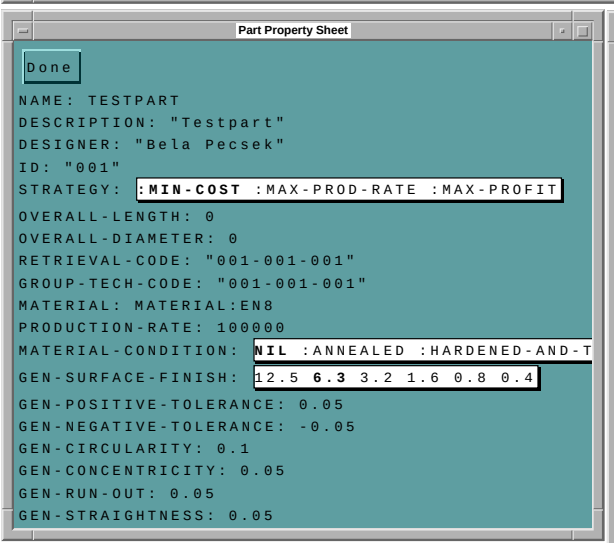
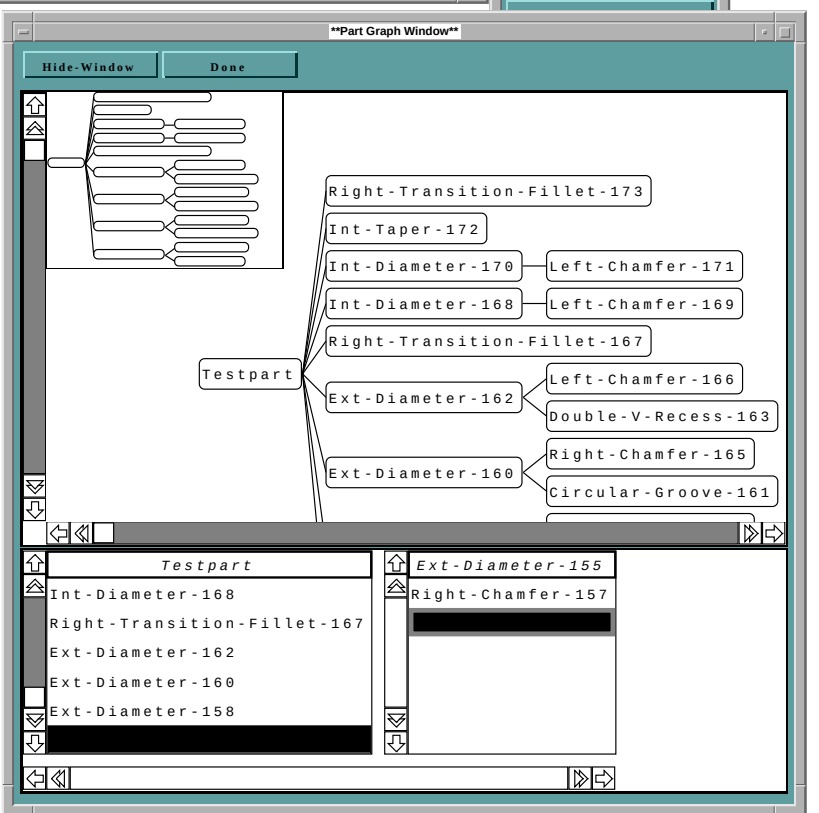

TURNINT Prototype CAPP Expert-System
TURNINT
TURNING-INTELLIGENCE
A Prototype Expert Process Planning System
For Turning Operations
UNSW


Tool-Path-Validation-Window
Reset
Win Zoom
Zoom In
Zoom Out
Pan
Hide-Win
Left
Down
Up
Right
Simulate By:
One Step
Five Steps
Features
Tools
Set-ups
Parts
Show Tool
Path Only
Start
Next
Previous
All
PCol: Yellow
CCol: Red
RCol: Blue
Feature-Property-Sheet
Done
NAME: LEFT-CHAMFER-156
FEATURE-TYPE: KRPART::SECONDARY-TURNING-FEATURE
SECONDARY-FEATURE-TO: (#k<EXT-DIAMETER-155>)
BASE-DIAMETER: 96.0
SURFACE-FINISH: 6.3
SIZE-Z: 2.0
SIZE-X: 2.0
ANGLE: 45


Main-Menu
Load-Part-File
Extract-Features
Analyze-Part-Structure
Performe-Planning
Validate-Tool-Path
Generate-CL-File
Generate-NC-Code
Generate-Report
Quit


Planning-Menu
Fill-In-Part-Properties
Performe-Selections
Select-Machine
Select-Raw-Material
Select-Chucking-Method
Generate-Prototype-Plans
Select-Tools-For-Features
Merge-Prototype-Plans
Sequence-Operations
Generate-Process-Plan


Part Property Sheet
Done
NAME: TESTPART
DESCRIPTION: "Testpart"
DESIGNER: "Bela Pecsek"
ID: "001"
STRATEGY: :MIN-COST :MAX-PROD-RATE :MAX-PROFIT
OVERALL-LENGTH: 0
OVERALL-DIAMETER: 0
RETRIEVAL-CODE: "001-001-001"
GROUP-TECH-CODE: "001-001-001"
MATERIAL: MATERIAL:EN8
PRODUCTION-RATE: 100000
MATERIAL-CONDITION: NIL :ANNEALED :HARDENED-AND-T
GEN-SURFACE-FINISH: 12.5 6.3 3.2 1.6 0.8 0.4
GEN-POSITIVE-TOLERANCE: 0.05
GEN-NEGATIVE-TOLERANCE: -0.05
GEN-CIRCULARITY: 0.1
GEN-CONCENTRICITY: 0.05
GEN-RUN-OUT: 0.05
GEN-STRAIGHTNESS: 0.05


Part Graph Window
Hide-Window
Done
Testpart
Right-Transition-Fillet-173
Int-Taper-172
Int-Diameter-170
Left-Chamfer-171
Int-Diameter-168
Left-Chamfer-169
Right-Transition-Fillet-167
Ext-Diameter-162
Left-Chamfer-166
Double-V-Recess-163
Ext-Diameter-160
Right-Chamfer-165
Circular-Groove-161
Testpart
Int-Diameter-168
Right-Transition-Fillet-167
Ext-Diameter-162
Ext-Diameter-160
Ext-Diameter-158
Ext-Diameter-155
Right-Chamfer-157