WHAT IS THE CVS

- CONCURRENT VERSION SYSTEM
- THE COPY-MODIFY-MERGE MODEL
- OPEN SOURCE (FREE)

THE REQUIREMENTS

- It support BeOS, Linux, Mac, OS2, unix, vms, Windows 95/NT, etc.
- More than 32 mb
- Server: most unix variants
- Non-client/server CVS: most unix variants, windows NT/ 95
- Client: most unix variants, windows NT/95

THE PURPOSES OF CVS

- RECORD KEEPING
  - COMPARING A PROGRAM
- COLLABORATION
  - MECHANISM
    - WORKING ON THE SAME PROJECT

WHO ARE WORKING ON CVS

- THE DEVELOPERS
  - WHY ?
    - EDIT SIMULTANEOUSLY
    - INTEGRATING ALL CHANGES
    - KEEP TRACK OF ANY CONFLICTS
      - » **THE COPY-MODIFY-MERGE MODEL**

THE PROCESS:

- DOWNLOADS A WORKING COPY ("CHECKING OUT")
- EDITS FREELY IN WORKING COPY
  - NO INTERFERENCE
- FINISHES, AND COMMINTS ALL CHANGES
- UPDATES THE WORKING COPY

THE POSSIBILITIES OF EDITTING

- CONFLICT
  "DO NOT WORRY"
  - THE TEXTUAL FLAG INDICATOR

THE SIMULATION OF CVS

TERMS

CHECK OUT

REQUEST A WORKING COPY FROM REPOSITORY

COMMIT

SEND A WORKING COPY TO CENTRAL REPOSITORY

CONFLICT

COMMIT CHANGES IN THE SAME REGION OF FILES

CONTINUE

UPDATE

TO BRING OTHER CHANGES

WORKING COPY

THE ACTUAL COPY THAT HAVE CHANGED TO THE PROJECT

CONTINUE

LOG MESSAGE

ATTACH THE REVISION

REPOSITORY

THE MASTER COPY (1)

REVISION

COMMIT THE CHANGES IN THE HISTORY OF FILE