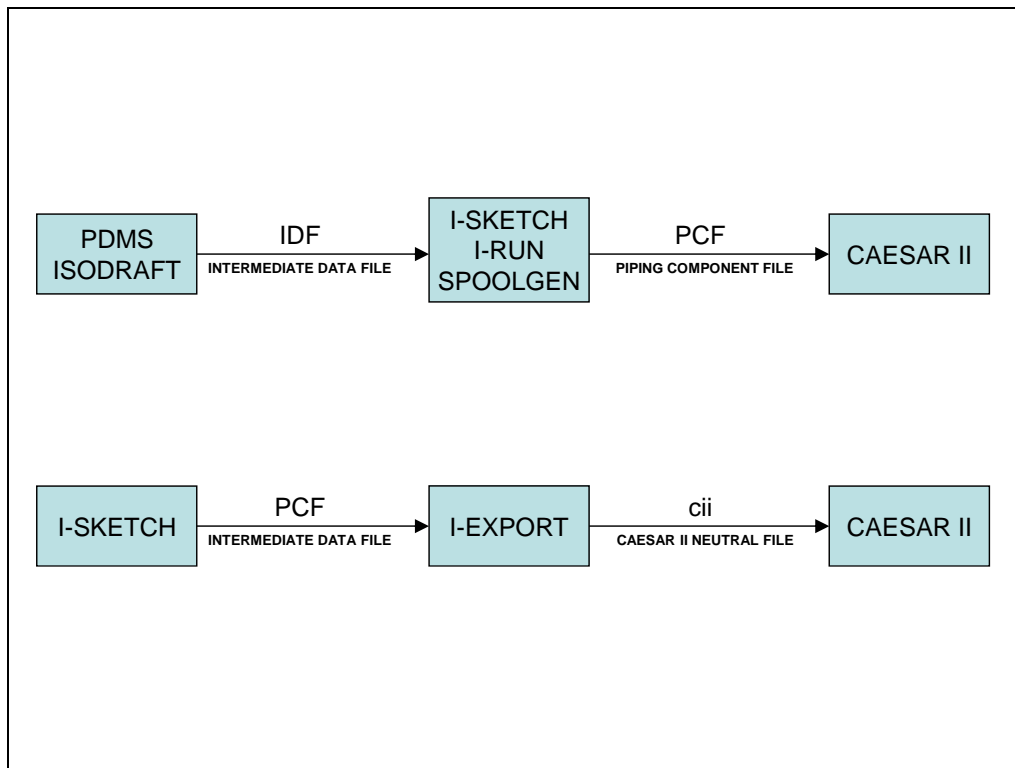
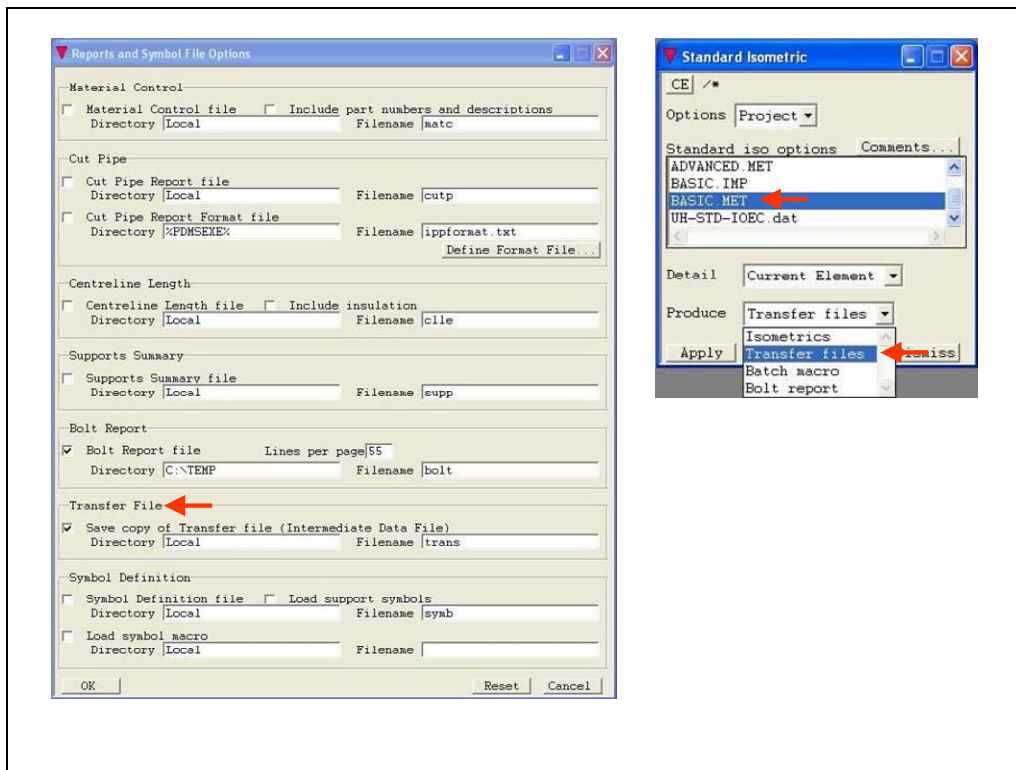


PDMS to CAESAR II WORK FLOW

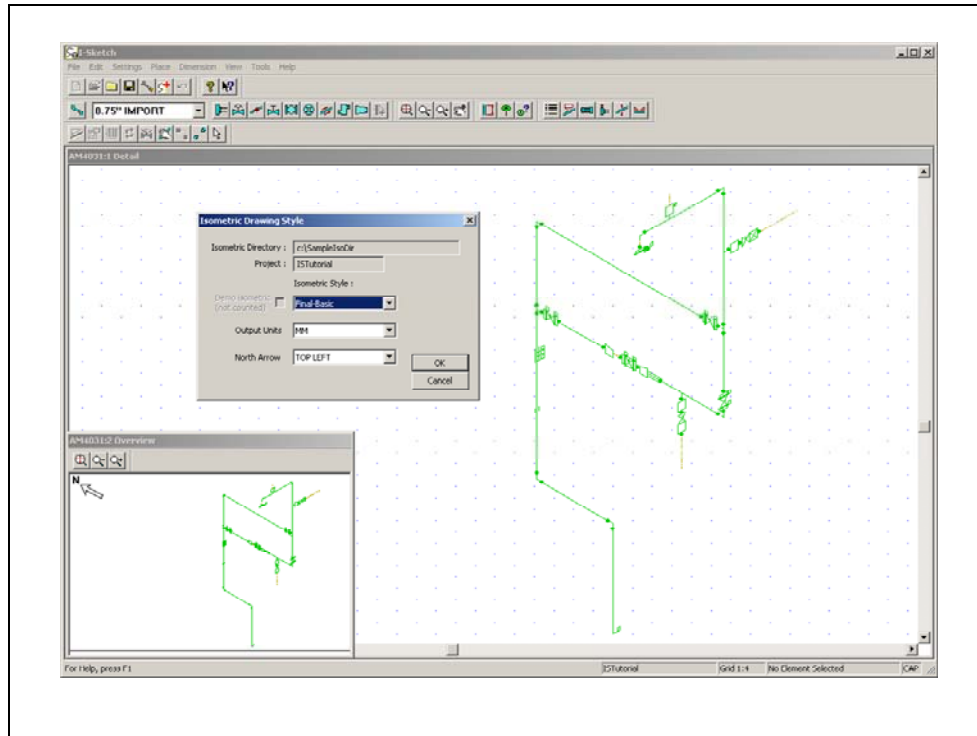
THIS PRESENTATION WILL SHOW YOU HOW TO EXPORT PIPING MODELS FROM PDMS TO CAESAR II WITHIN FEW MINUTES FOR STRESS ANALYSIS, WITHOUT ANY PIPING GEOMETRY DATA LOSS.



I-SKETCH, I-RUN, SPOOLGEN AND I-EXPORT ARE THE ALIAS PIPING SOLUTIONS PRODUCTS.
ISOGEN IS THE INDUSTRY STANDARD ISOMETRIC ENGINE FROM ALIAS.
MOST OF THE PIPING AND PLANT DESIGN SOFTWARE SYSTEMS ARE IMPORTING/EXPORTING **IDF** OR **PCF** FILES.



- FIRST, YOU MUST HAVE ISODRAFT ADMIN PRIVILEGE IN ORDER TO CHANGE OPTION SWITCHES. TRANSFER FILE CHECK BOX MUST BE CHECKED TO INSTRUCT PDMS TO CREATE TRANSFER FILE. ALSO, DIRECTORY AND FILE NAME MUST BE SPECIFIED.
- THEN YOU MUST RENAME TRANSFER FILE TO ie. Trans.idf.
- SPECIFY ANY ISOMETRIC TYPE AND TRANSFER FILES OPTION TO BE PRODUCED AUTOMATICALLY THEN CLICK ON APPLY BUTTON.



The next step is to import **IDF** file to I-SKETCH and create an isometric drawing. Once you create isometric drawing **PCF** file is created automatically and saved in I-SKETCH project directory.


```

ISOGEN-FILES      ISOGEN.FLS
UNITS-BORE        INCH
UNITS-CO-ORDS     MM
UNITS-BOLT-LENGTH MM
UNITS-BOLT-DIA    INCH
UNITS-WEIGHT      KGS
PIPELINE-REFERENCE AM4031
REVISION          -1
AREA              (AM)
PIPING-SPEC       3P1
NOMINAL-RATING    0
PIPELINE-TYPE     NULL
DATE-DMY          06/01/2007
PAINTING-SPEC     unset
ATTRIBUTE0        c:\SampleIsoDir\ISTutorial\pipes\AM4031.iso
START-CO-ORDS     83800.0000 22205.0000 110495.0000
GASKET
END-POINT         83800.0000 22205.0000 110495.0000 3.0000
END-POINT         83800.0000 22205.0000 110498.0000 3.0000
ITEM-CODE         ACGCBDC
UNIQUE-COMPONENT-IDENTIFIER 16387/405
CATEGORY ERECTION
GASKET-CLASS
PAINTING-SPEC     unset
BOLT
CO-ORDS           83800.0000 22205.0000 110498.0000
BOLT-DIA          0.75
BOLT-ITEM-CODE    MSBDL110
BOLT-QUANTITY     8
BOLT-LENGTH      110.00
CATEGORY ERECTION
END-CONNECTION-EQUIPMENT
CO-ORDS           83800.0000 22205.0000 110495.0000
CONNECTION-REFERENCE E-4153/N4
FLANGE
END-POINT         83800.0000 22205.0000 110498.0000 3.0000
END-POINT         83800.0000 22205.0000 110577.3700 3.0000
SKEY              FLWN
ITEM-CODE         AAFWBD0
UNIQUE-COMPONENT-IDENTIFIER 16387/406
PAINTING-SPEC     unset
CATEGORY FABRICATION

```

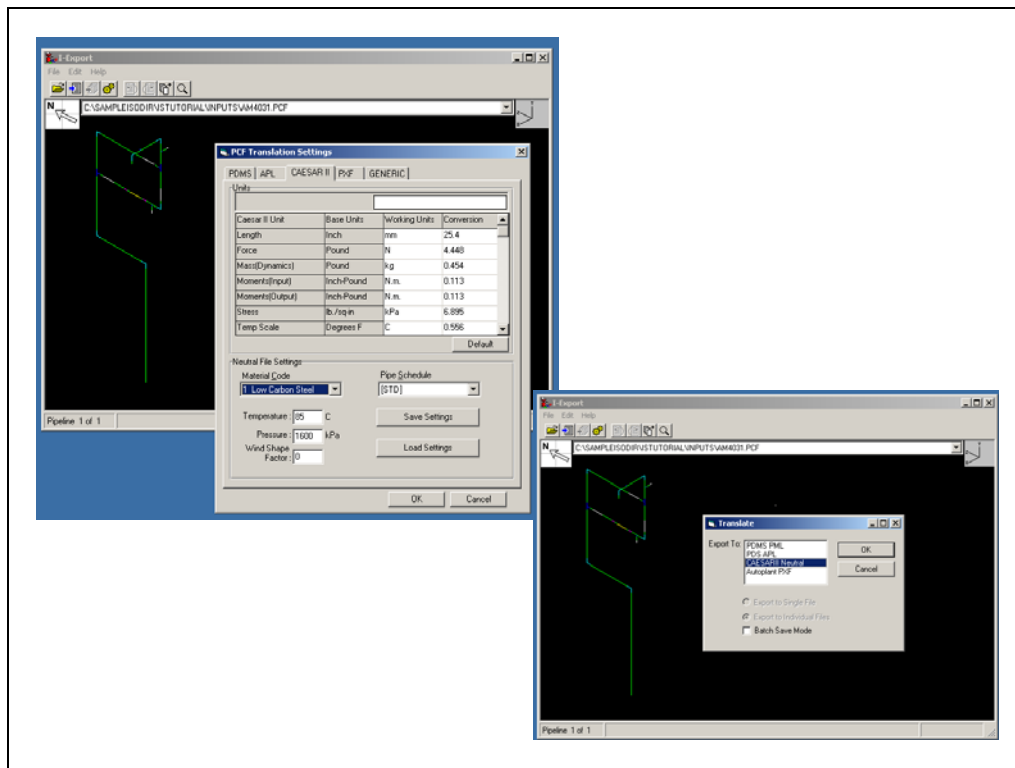
Sample PCF file.

```

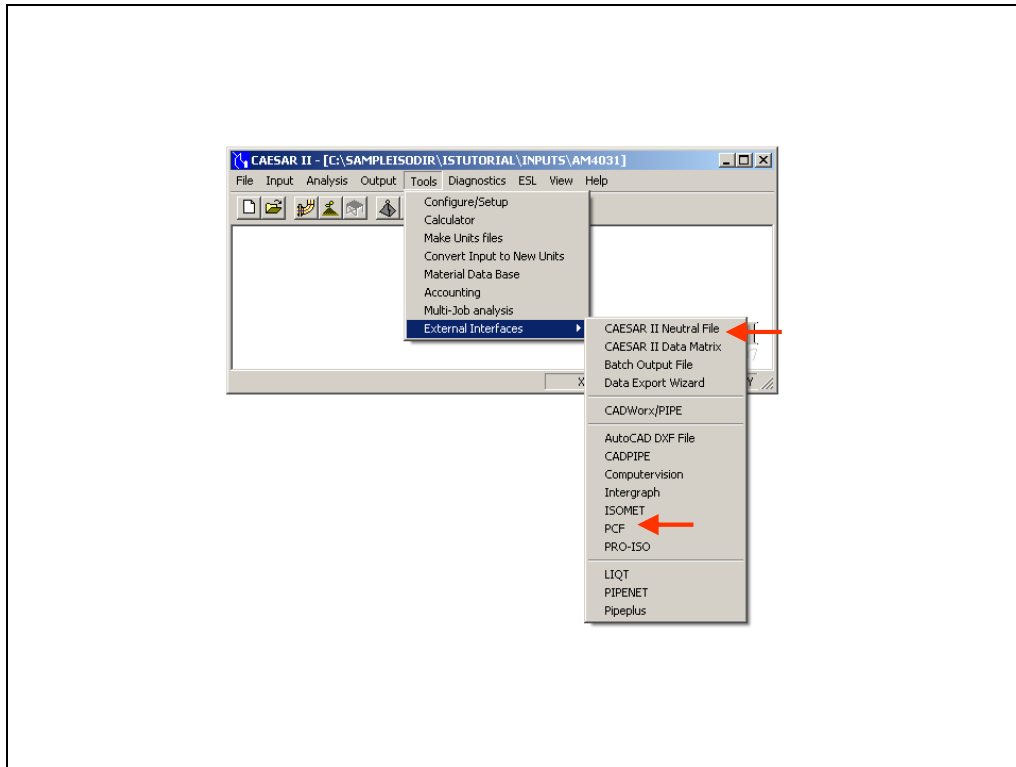
WELD
END-POINT      83800.0000  22205.0000  110577.3700  3.0000
END-POINT      83800.0000  22205.0000  110577.3700  3.0000
SKEY           WW
UNIQUE-COMPONENT-IDENTIFIER B7153AD6-EAC9-4414-B3EC-A4DB11EC9EC3
REPEAT-WELD-IDENTIFIER 1
CATEGORY FABRICATION
ELBOW
END-POINT      83800.0000  22205.0000  110577.3700  3.0000
END-POINT      83914.3000  22205.0000  110691.6700  3.0000
CENTRE-POINT   83800.0000  22205.0000  110691.6700
SKEY           ELBW
ANGLE          9000
ITEM-CODE      AAEA200
UNIQUE-COMPONENT-IDENTIFIER 16387/407
PAINTING-SPEC  unset
CATEGORY FABRICATION
WELD
END-POINT      83914.3000  22205.0000  110691.6700  3.0000
END-POINT      83914.3000  22205.0000  110691.6700  3.0000
SKEY           WW
UNIQUE-COMPONENT-IDENTIFIER B7533A83-39EE-49F4-90D9-467575B487CE
REPEAT-WELD-IDENTIFIER 2
CATEGORY FABRICATION
PIPE
END-POINT      83914.3000  22205.0000  110691.6700  3.0000
END-POINT      84014.3000  22205.0000  110691.6700  3.0000
ITEM-CODE      AFPA200
UNIQUE-COMPONENT-IDENTIFIER LSTU_16387/407
CATEGORY FABRICATION
PAINTING-SPEC  unset

```

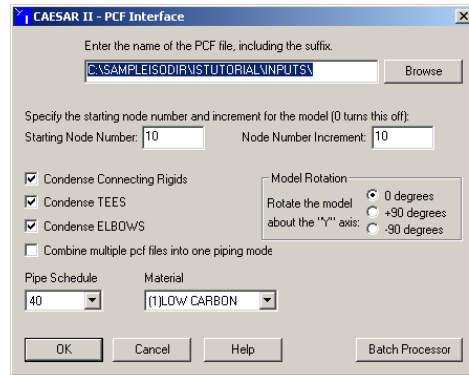
Sample PCF file. (cont.)



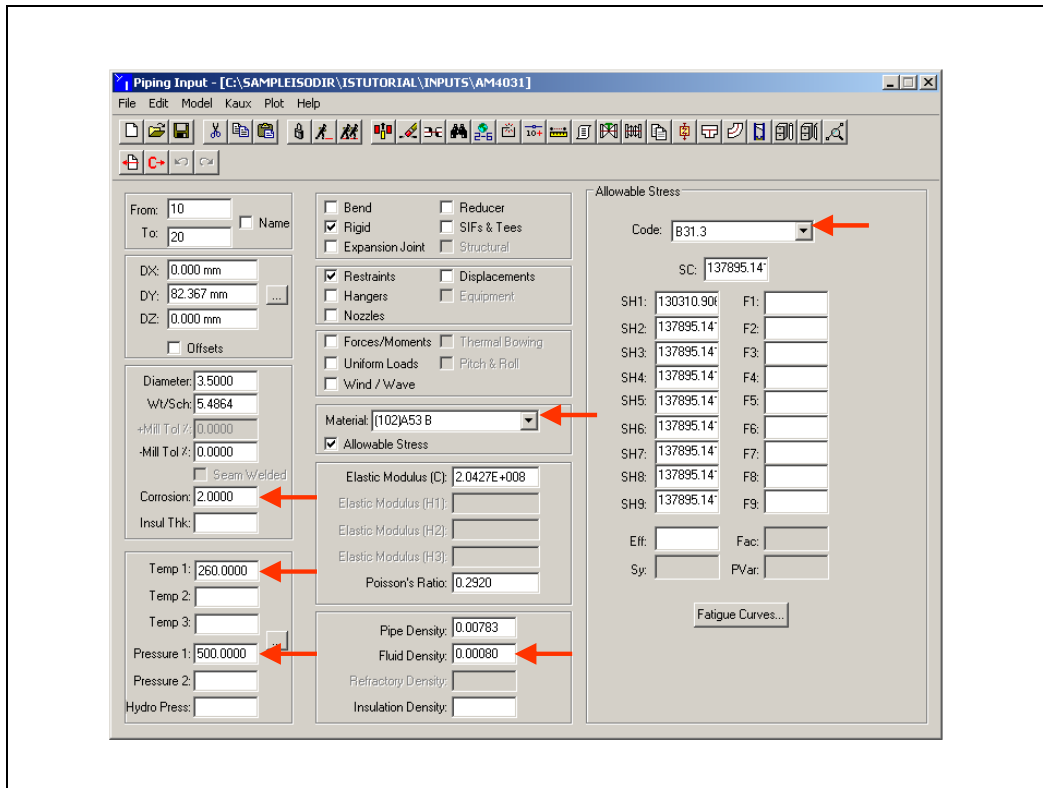
Or you may use I-EXPORT program to import **IDF** file and create **cii** file.



Select **PCF** command from **External Interfaces** pulldown menu.



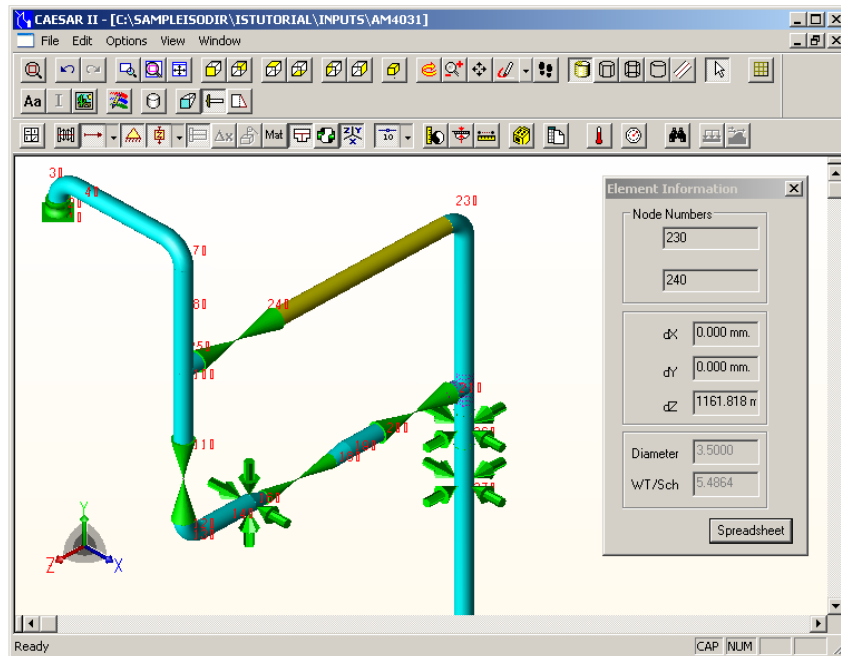
Select appropriate settings and click OK.



In CAESAR II input spread sheet, enter temp., press., Mat., etc.

Remember,

- All valves and flanges are imported as weightless rigid elements but with correct face to face dimensions. You must enter rigid weights manually.
- All pipe supports are imported as rigid anchors, so you must change support types.



Now you have finished CAESAR II model ready for analysis.