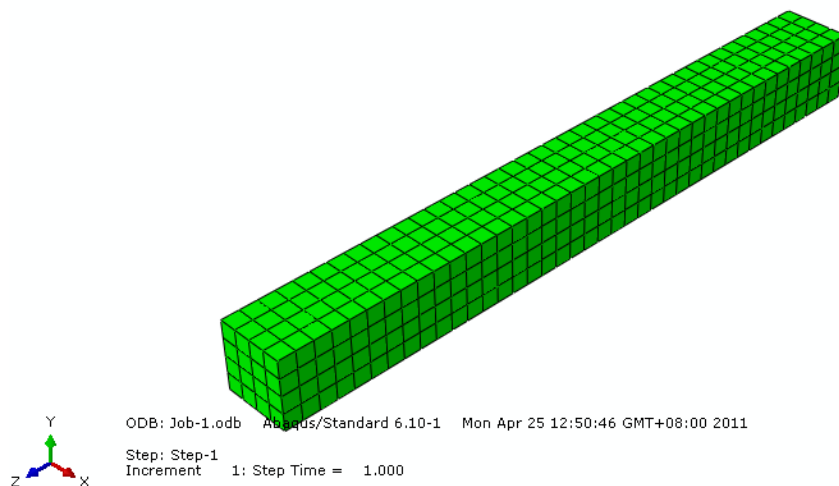


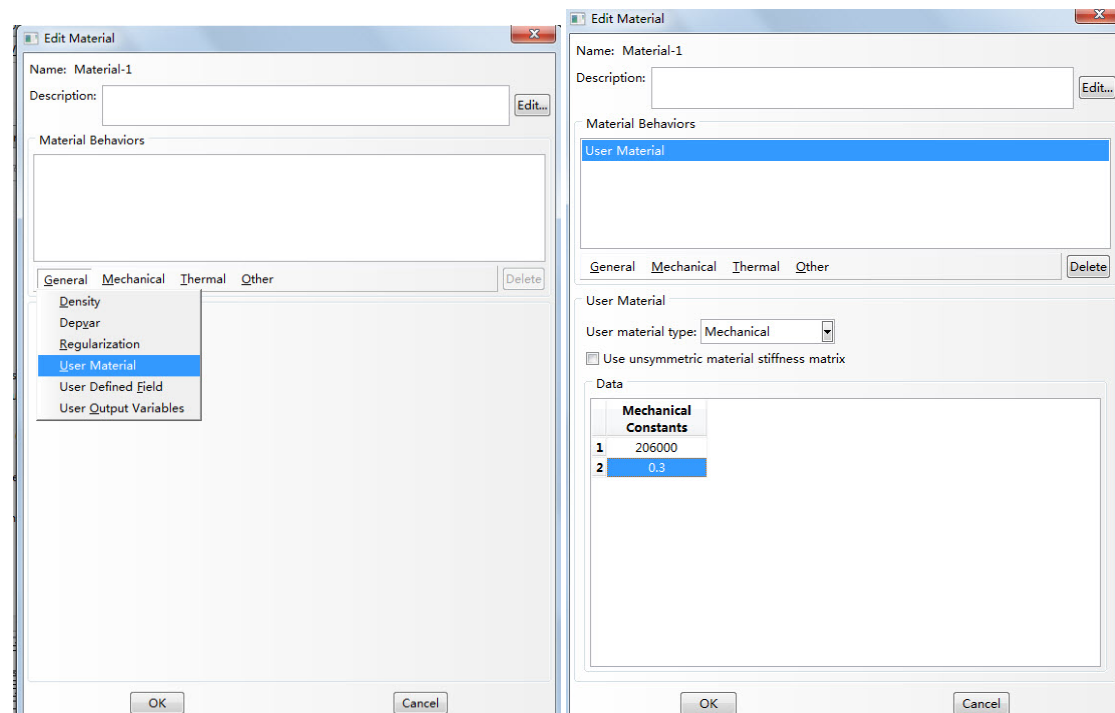
实例：最简单的杆件单轴拉伸，材料本构模型采用线弹性模型， $E=206000\text{MPa}$ ,  $\nu=0.3$ 。左端约束，右端施加均布力  $q=1$ 。

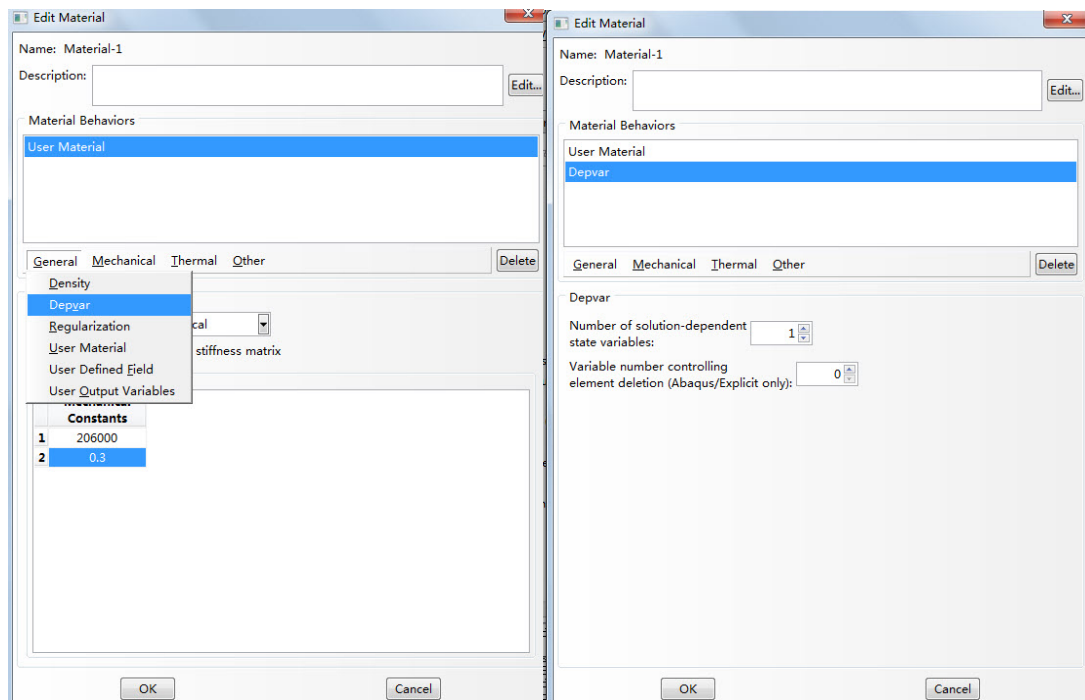
**Author: xueweek** 希望这个小例子能帮助初学者减少一两天的摸索时间



## 1 材料本构模型： $\sigma=E\varepsilon$

在 Property 中定义材料时，在 General 下选中 User Material，输入 206000，0.3。以上两个数值代表  $E$ 、 $\nu$ ，在用户子程序中代表着 PROPS(1)、PROPS(2)。然后在 General 下选中 Depvar，由于该例子中没有使用状态变量，因此在第一项中输入大于 0 的数值即可。





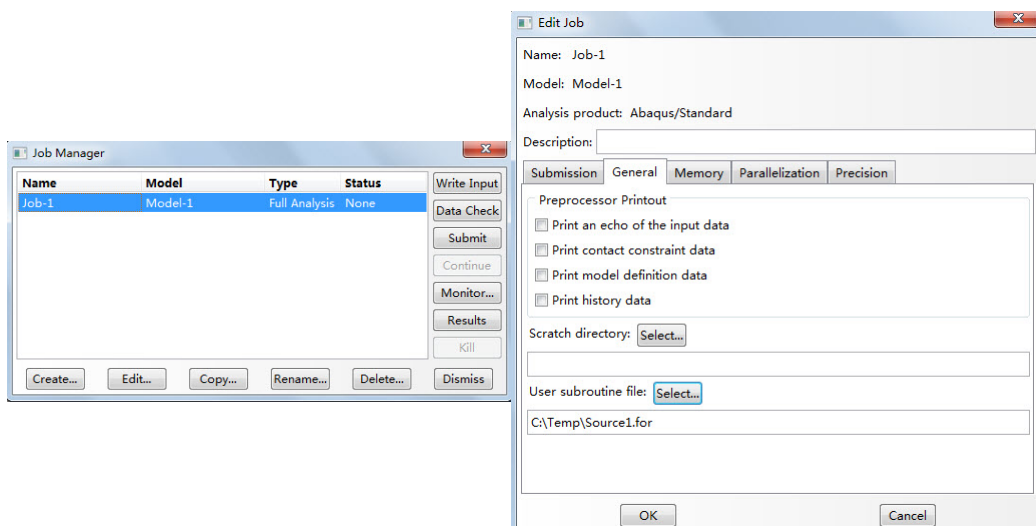
建模大家都会，故省略

## 2 ABAQUS 调用用户子程序

大家在论坛上也可以看到很多方法，我这里指介绍最简单的一种。

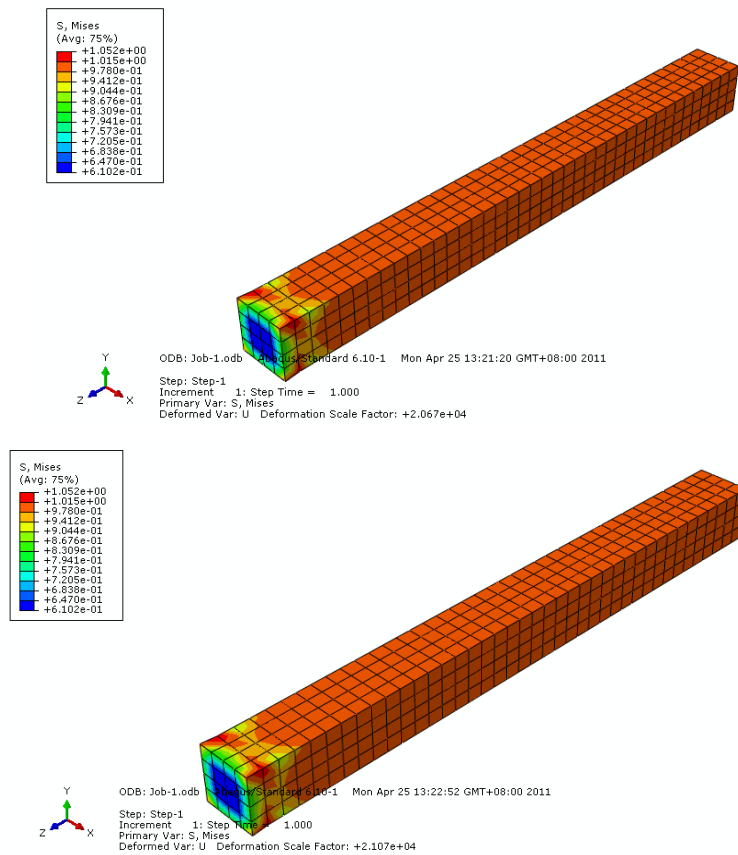
在 Job Manager 中点击 Edit 选项，在 General 选项的最后一项中选择自己建立好的用户子程序文件。（注：用户子程序文件可以使用文本编辑器进行编辑，当然也可以用 Fortran 编译器，如果对自己的用户子程序文件的语法不放心，可以先用 Fortran 编译器进行编译，不过编译前要先建立 Project，关于 Fortran 编译，这里不再介绍）。

完成后，点击 submit 即可进行分析。



## 3 结果

以下两张图分布是用户子程序和 ABAQUS 自带的材料模型得到的应力云图，可以看出两种图形完全相同。



#### 4 UMAT 子程序

对于初学者来说，需要注意的是，FORTRAN 对于程序语言格式上的要求。例如，对于 FORTRAN 语言，前六个字符必须空出来，等等。检查语法最好的方法就是在 FORTRAN 编译器上进行编译。

```

SUBROUTINE UMAT(STRESS,STATEV,DDSDDE,SSE,SPD,SCD,RPL,DDSDDT,
1 DRPLDE,DRPLDT,STRAN,DSTRAN,TIME,DTIME,TEMP,DTEMP,PREDEF,DPRED,
2 CMNAME,NDI,NSHR,NTENS,NSTATV,PROPS,NPROPS,COORDS,DROT,
3 PNEWDT,CELENT,DFGRD0,DFGRD1,NOEL,NPT,LAYER,KSPT,KSTEP,KINC)
  include 'aba_param.inc'
  CHARACTER*8 CMNAME
  DIMENSION STRESS(NTENS),STATEV(NSTATV),DDSDDE(NTENS,NTENS),
1 DDSDDT(NTENS),DRPLDE(NTENS),STRAN(NTENS),DSTRAN(NTENS),
2 TIME(2),PREDEF(1),DPRED(1),PROPS(NPROPS),COORDS(3),DROT(3,3),
3 DFGRD0(3,3),DFGRD1(3,3)
C UMAT FOR ISOTROPIC ELASTICITY
C CANNOT BE USED FOR PLANE STRESS
C -----
C PROPS(1) - E
C PROPS(2) - NU
C -----

```

```

C
    IF (NDI.NE.3) THEN
        WRITE (6,*) 'THIS UMAT MAY ONLY BE USED FOR ELEMENTS
1 WITH THREE DIRECT STRESS COMPONENTS'
        CALL XIT
    ENDIF

C
C ELASTIC PROPERTIES
    EMOD=PROPS(1)
    ENU=PROPS(2)
    EBULK3=EMOD/(1-2*ENU)
    EG2=EMOD/(1+ENU)
    EG=EG2/2
    EG3=3*EG
    ELAM=(EBULK3-EG2)/3

C
C ELASTIC STIFFNESS
C
    DO K1=1, NDI
        DO K2=1, NDI
            DDSDDDE(K2, K1)=ELAM
        END DO
        DDSDDDE(K1, K1)=EG2+ELAM
    END DO
    DO K1=NDI+1, NTENS
        DDSDDDE(K1 ,K1)=EG
    END DO

C
C CALCULATE STRESS
C
    DO K1=1, NTENS
        DO K2=1, NTENS
            STRESS(K2)=STRESS(K2)+DDSDDDE(K2, K1)*DSTRAN(K1)
        END DO
    END DO

C
    RETURN
    END

```

## 5 INP 输入文件

```

*Heading
** Job name: Job-1 Model name: Model-1
** Generated by: Abaqus/CAE 6.10-1
**Preprint, echo=NO, model=NO, history=NO, contact=NO
**
** PARTS
**
*Part, name=Part-1
*End Part
**

```

```
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** ASSEMBLY
**
*Assembly, name=Assembly
**
*Instance, name=Part-1-1, part=Part-1
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989,	0.,	0.0099999978,	0.0700000003
990,	0.,	0.,	0.0700000003
991,	0.,	0.0399999991,	0.0599999987
992,	0.,	0.0299999993,	0.0599999987
993,	0.,	0.0199999996,	0.0599999987
994,	0.,	0.0099999978,	0.0599999987
995,	0.,	0.,	0.0599999987
996,	0.,	0.0399999991,	0.0500000007
997,	0.,	0.0299999993,	0.0500000007
998,	0.,	0.0199999996,	0.0500000007
999,	0.,	0.0099999978,	0.0500000007
1000,	0.,	0.,	0.0500000007
1001,	0.,	0.0399999991,	0.0399999991
1002,	0.,	0.0299999993,	0.0399999991
1003,	0.,	0.0199999996,	0.0399999991
1004,	0.,	0.0099999978,	0.0399999991
1005,	0.,	0.,	0.0399999991
1006,	0.,	0.0399999991,	0.0299999993
1007,	0.,	0.0299999993,	0.0299999993
1008,	0.,	0.0199999996,	0.0299999993
1009,	0.,	0.0099999978,	0.0299999993
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1011,	0.,	0.0399999991,	0.0199999996
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4,	209,	210,	215,	214,	4,	5,	10,	9
5,	211,	212,	217,	216,	6,	7,	12,	11
6,	212,	213,	218,	217,	7,	8,	13,	12
7,	213,	214,	219,	218,	8,	9,	14,	13

8,	214,	215,	220,	219,	9,	10,	15,	14
9,	216,	217,	222,	221,	11,	12,	17,	16
10,	217,	218,	223,	222,	12,	13,	18,	17
11,	218,	219,	224,	223,	13,	14,	19,	18
12,	219,	220,	225,	224,	14,	15,	20,	19
13,	221,	222,	227,	226,	16,	17,	22,	21
14,	222,	223,	228,	227,	17,	18,	23,	22
15,	223,	224,	229,	228,	18,	19,	24,	23
16,	224,	225,	230,	229,	19,	20,	25,	24
17,	226,	227,	232,	231,	21,	22,	27,	26
18,	227,	228,	233,	232,	22,	23,	28,	27
19,	228,	229,	234,	233,	23,	24,	29,	28
20,	229,	230,	235,	234,	24,	25,	30,	29
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23,	233,	234,	239,	238,	28,	29,	34,	33
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*End Instance
**
*Nset, nset=_PickedSet10, internal, instance=Part-1-1
1, 2, 3, 4, 5, 206, 207, 208, 209, 210, 411, 412, 413, 414, 415, 616
617, 618, 619, 620, 821, 822, 823, 824, 825
*Elset, elset=_PickedSet10, internal, instance=Part-1-1
1, 2, 3, 4, 161, 162, 163, 164, 321, 322, 323, 324, 481, 482, 483, 484
*Elset, elset=__PickedSurf11_S5, internal, instance=Part-1-1
157, 158, 159, 160, 317, 318, 319, 320, 477, 478, 479, 480, 637, 638, 639, 640
*Surface, type=ELEMENT, name=_PickedSurf11, internal
__PickedSurf11_S5, S5
*End Assembly
**
** ELEMENT CONTROLS
**
*Section Controls, name=EC-1, second order accuracy=YES
1., 1., 1.
**
** MATERIALS
**
*Material, name=Material-1
*Depvar
1,
*User Material, constants=2
206000., 0.3
*Material, name=Material-2
*Elastic
206000., 0.3
**
** BOUNDARY CONDITIONS
**
** Name: BC-1 Type: Displacement/Rotation
*Boundary
_PickedSet10, 1, 1
_PickedSet10, 2, 2
_PickedSet10, 3, 3
** -----
**
** STEP: Step-1
**
*Step, name=Step-1
*Static
1., 1., 1e-05, 1.
**
** LOADS
**
** Name: Load-1 Type: Pressure
*Dload
_PickedSurf11, P, -1.
**
** OUTPUT REQUESTS
**
*Restart, write, frequency=0
**
** FIELD OUTPUT: F-Output-1
**
*Output, field, variable=PRESELECT
**
** HISTORY OUTPUT: H-Output-1
**
*Output, history, variable=PRESELECT
*End Step

```