

# *STAR-CD*如何合并多个瞬态计算 结果文件

2010.7.7

叶良春

西迪阿特公司 技术部



## 问题描述

---

- 有一瞬态计算，分段保存了两个计算结果文件，分别为star.pstt1, star.pstt2, 需要将其合并成一个。

## step1

- 在prostar中采用trload命令查看两个pstt文件中计算步数情况，分别如下图所示：

```
trlo star.pstt1
```

TIME STEP INFORMATION IN FILE star.pstt1:

NO.	TIME STEP NO.	TIME
1	5	0.50000000E-01
2	10	0.99999990E-01
3	15	0.15000000
4	20	0.20000001
5	25	0.25000002
6	30	0.30000000
7	35	0.34999993
8	40	0.39999990
9	45	0.44999983
10	50	0.50000000

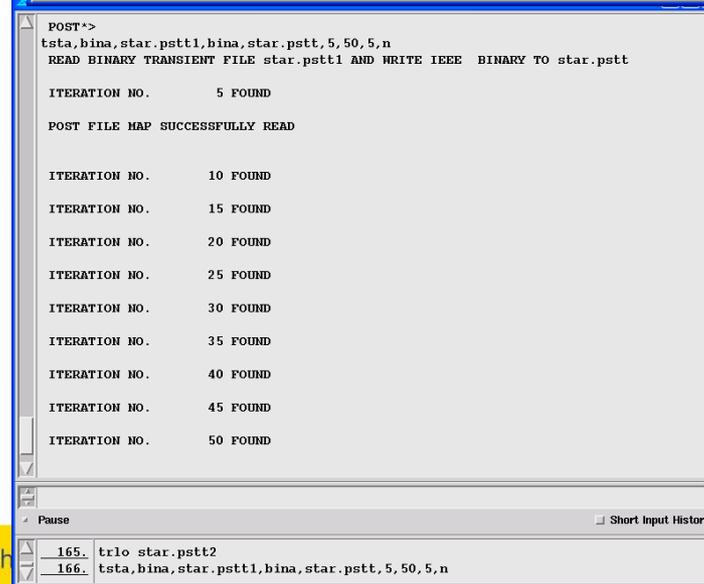
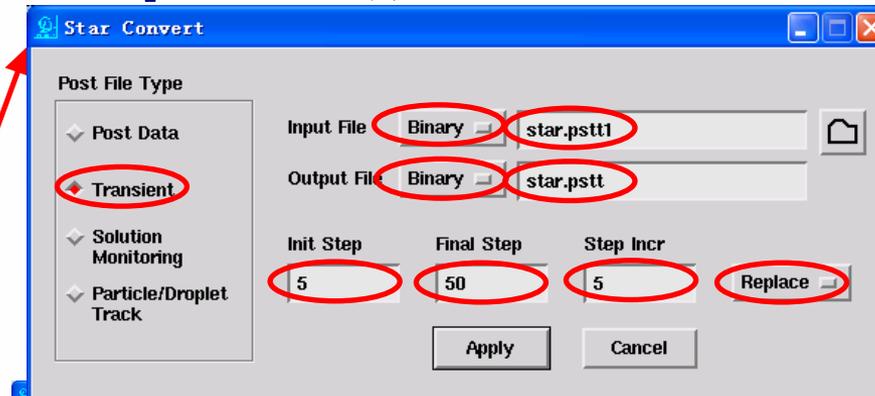
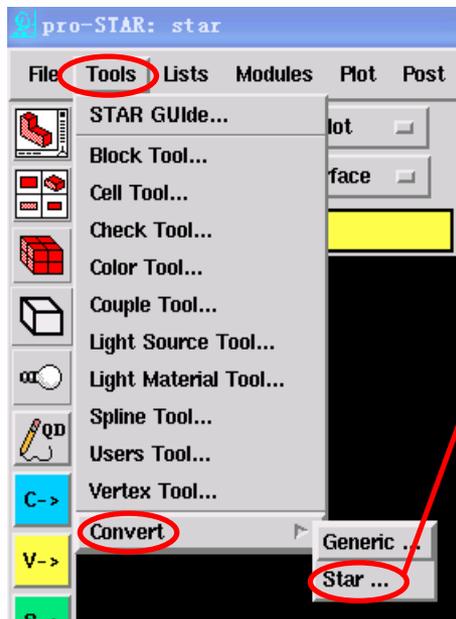
```
trlo star.pstt2
```

TIME STEP INFORMATION IN FILE star.pstt2:

NO.	TIME STEP NO.	TIME
1	55	0.55000000
2	60	0.59999990
3	65	0.64999990
4	70	0.69999980
5	75	0.74999980
6	80	0.79999971
7	85	0.84999970
8	90	0.89999961
9	95	0.94999960
10	100	1.00000000

## step2

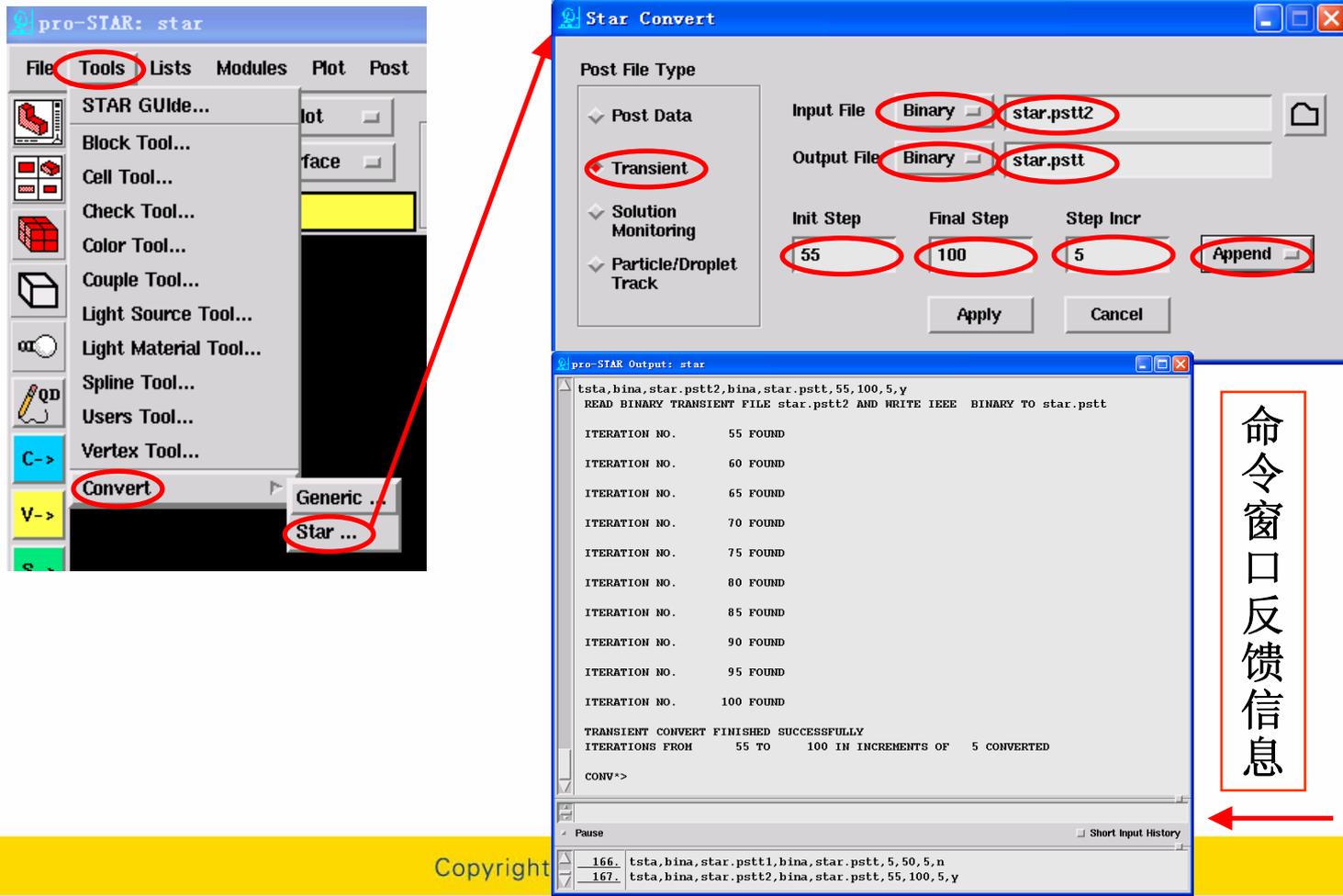
- 利用Tstar工具从star.pstt1文件中抽取5~50步（步数增量为5）结果存入命名为star.pstt的文件。



命令窗口反馈信息

## step3

- 利用Tstar工具从star.pstt2文件中抽取55~100步（步数增量为5）结果附入命名为star.pstt的文件。



The screenshot shows the pro-STAR software interface. The 'Tools' menu is open, and the 'Convert' option is selected. The 'Star Convert' dialog box is displayed, showing the following settings:

- Post File Type: Transient
- Input File: Binary, star.pstt2
- Output File: Binary, star.pstt
- Init Step: 55
- Final Step: 100
- Step Incr: 5
- Append: Append

The 'pro-STAR Output: star' window shows the following output:

```

tsta,bina,star.pstt2,bina,star.pstt,55,100,5,y
READ BINARY TRANSIENT FILE star.pstt2 AND WRITE IEEE BINARY TO star.pstt

ITERATION NO.    55 FOUND
ITERATION NO.    60 FOUND
ITERATION NO.    65 FOUND
ITERATION NO.    70 FOUND
ITERATION NO.    75 FOUND
ITERATION NO.    80 FOUND
ITERATION NO.    85 FOUND
ITERATION NO.    90 FOUND
ITERATION NO.    95 FOUND
ITERATION NO.   100 FOUND

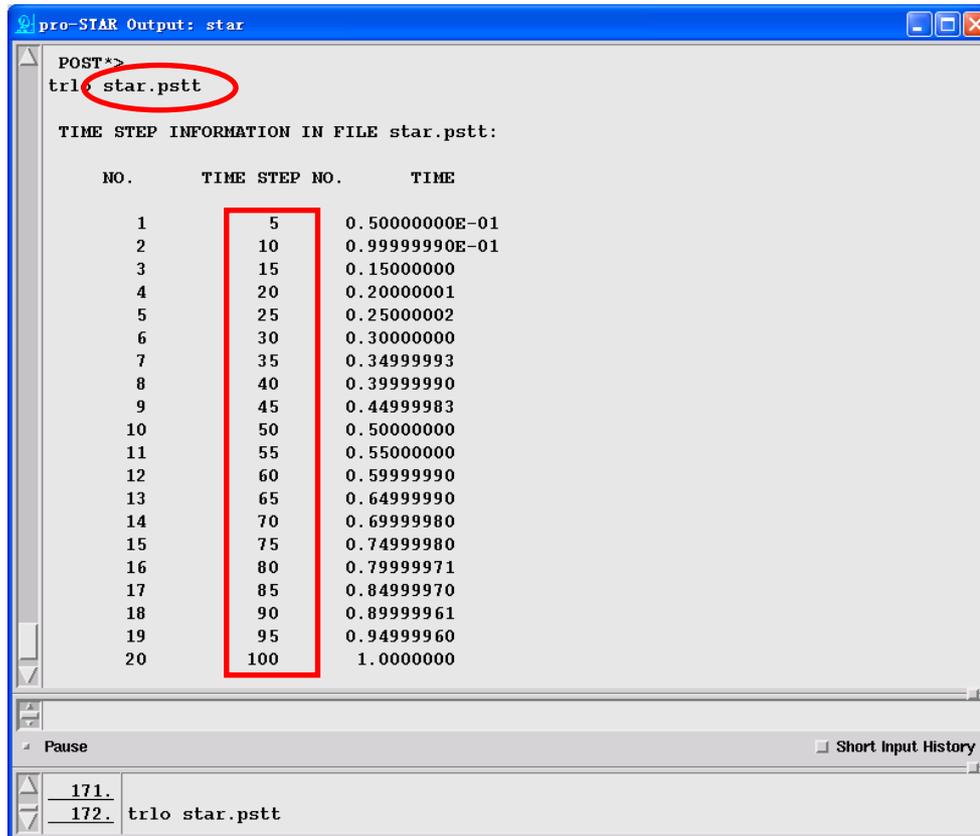
TRANSIENT CONVERT FINISHED SUCCESSFULLY
ITERATIONS FROM 55 TO 100 IN INCREMENTS OF 5 CONVERTED

CONV^>
  
```

命令窗口反馈信息

## step4

- 在prostar中采用trload命令确认star.pstt中包含两个pstt文件中的结果，如下图所示：



pro-STAR Output: star

```

POST*
trlo star.pstt
  
```

TIME STEP INFORMATION IN FILE star.pstt:

NO.	TIME STEP NO.	TIME
1	5	0.50000000E-01
2	10	0.99999990E-01
3	15	0.15000000
4	20	0.20000001
5	25	0.25000002
6	30	0.30000000
7	35	0.34999993
8	40	0.39999990
9	45	0.44999983
10	50	0.50000000
11	55	0.55000000
12	60	0.59999990
13	65	0.64999990
14	70	0.69999980
15	75	0.74999980
16	80	0.79999971
17	85	0.84999970
18	90	0.89999961
19	95	0.94999960
20	100	1.00000000

Pause  Short Input History

```

171.
172. trlo star.pstt
  
```

**support@cdaj-china.com**



**电话: (86)10-65881497/8**

**地址: 北京朝阳门外大街18号丰联广场A座1207室**

**<http://www.cdaj-china.com>**