

准备工作:

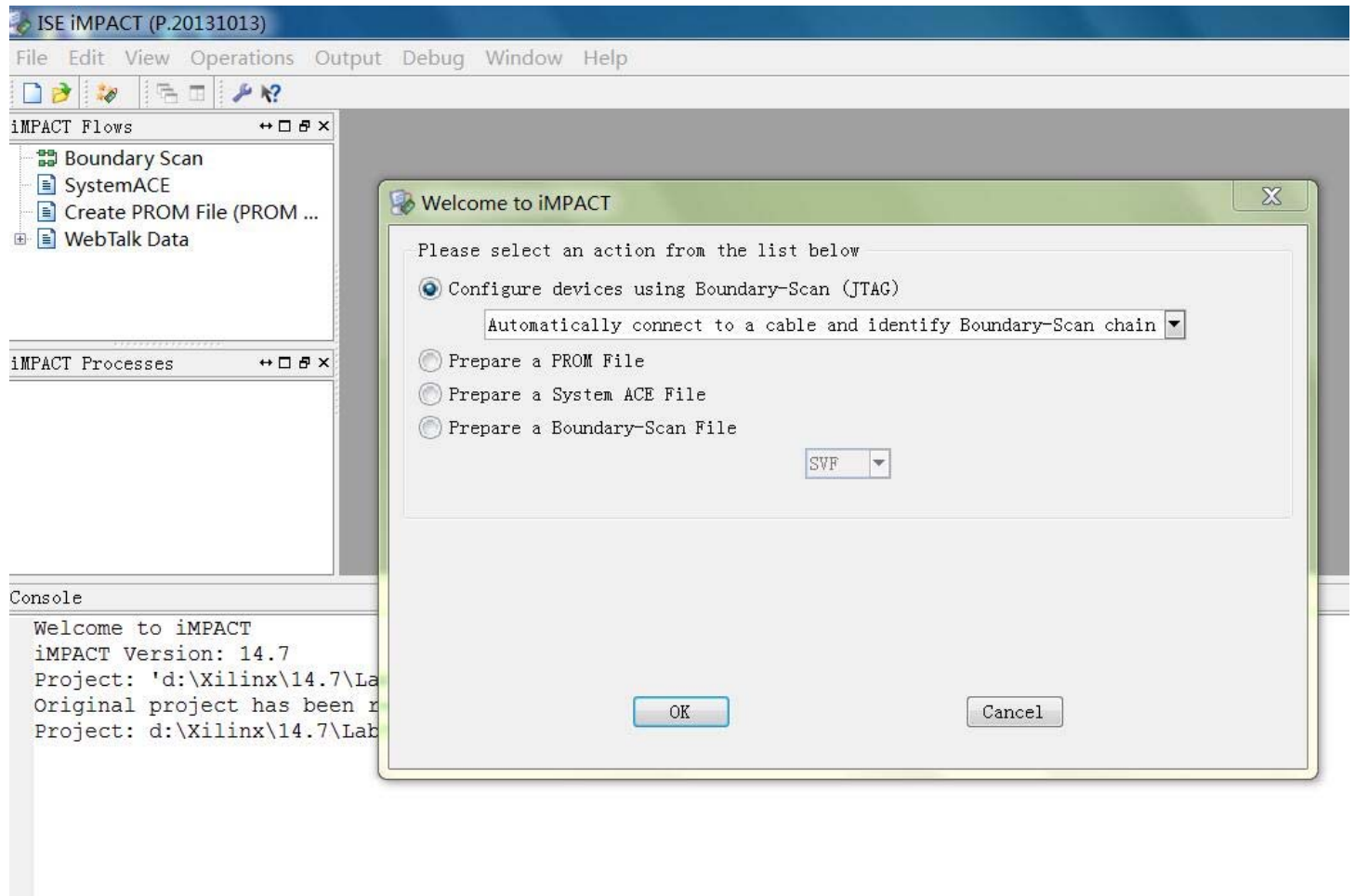
安装好 ISE14.2 以上的软件

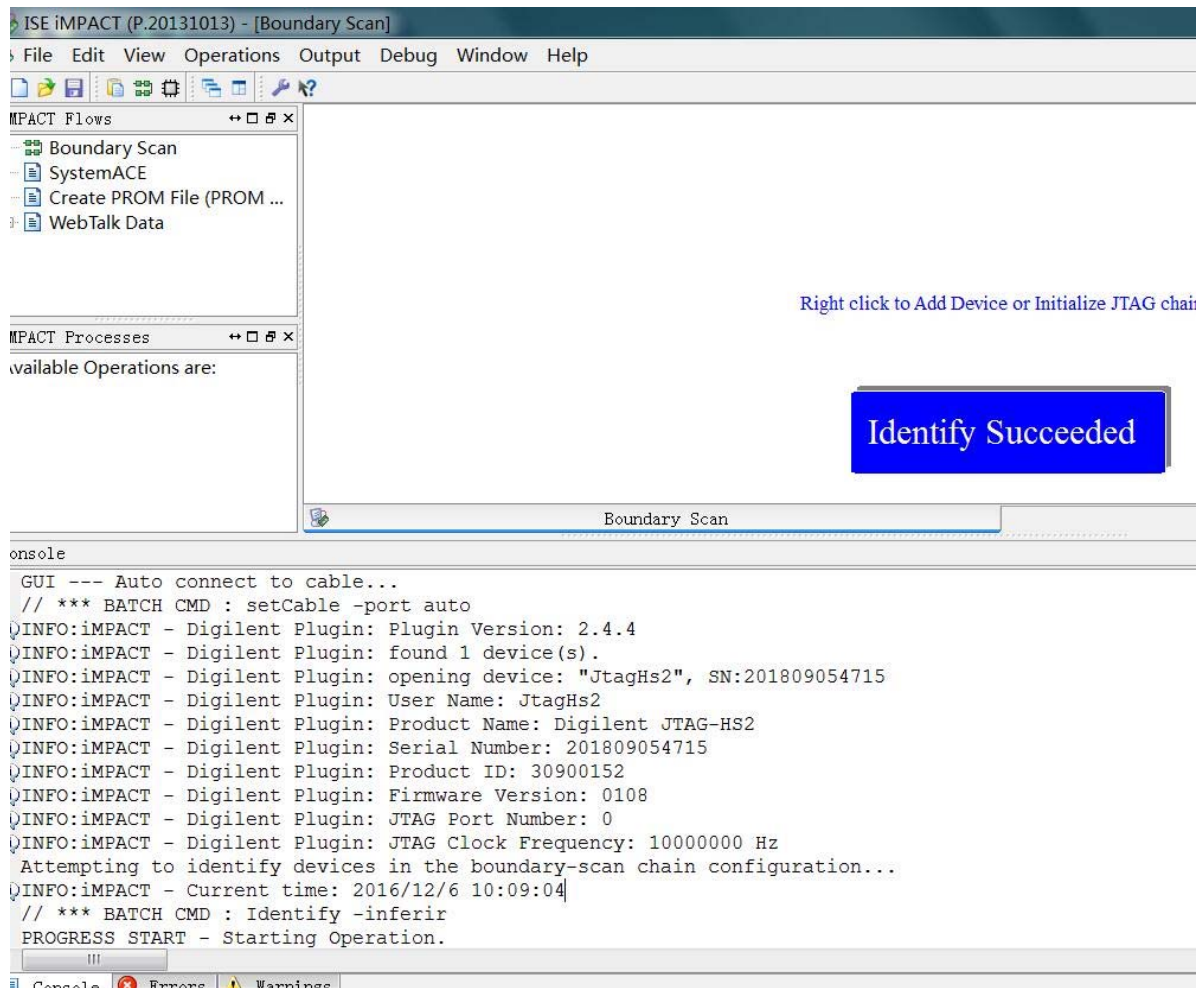
安装好 ISE 软件后, 插入 XILINX CABLE 驱动会自动安装好, 无需人工干预

下载器与 XC2C32A 开发板相连, 以便验证

运行 iMPact

新建项目

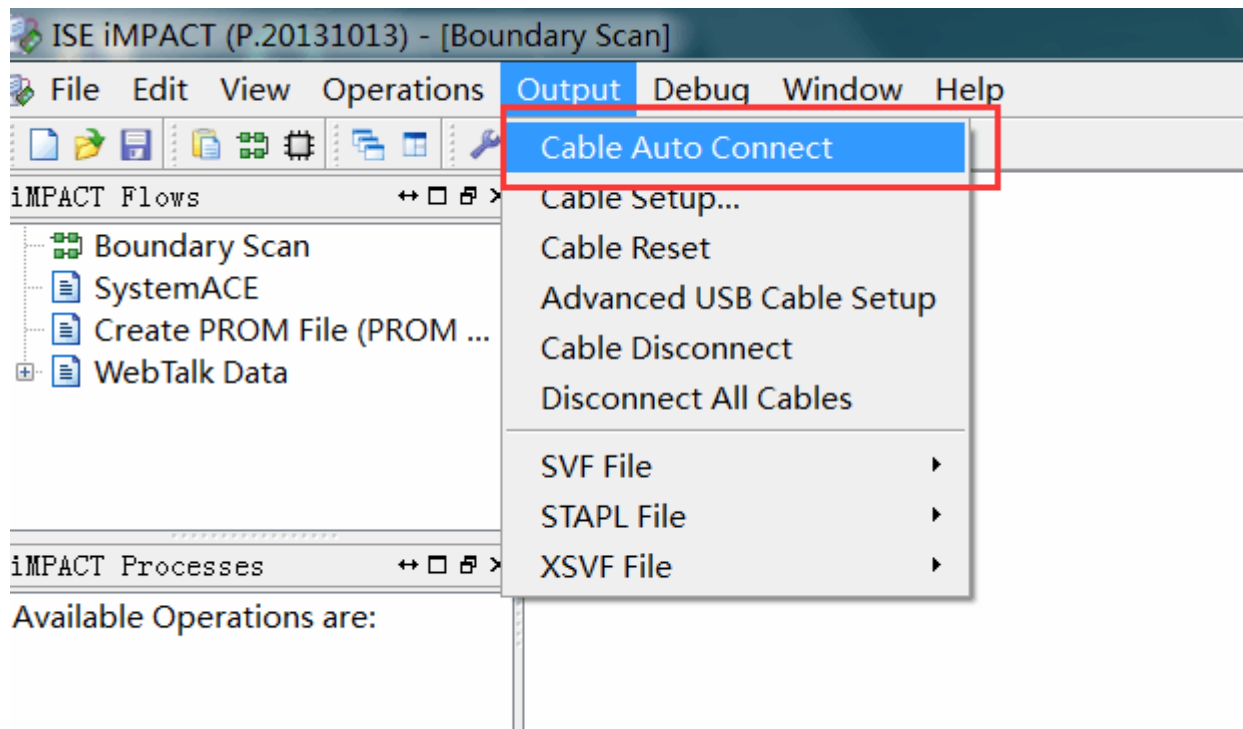




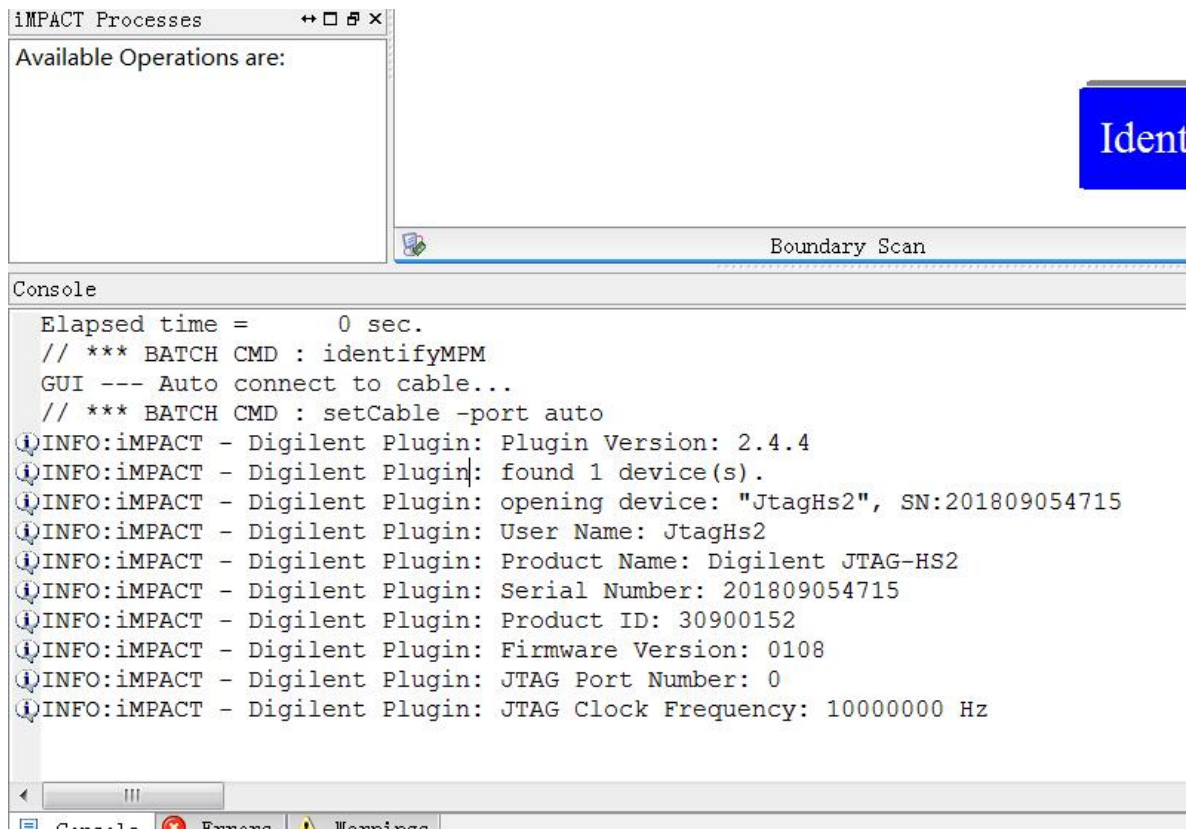
菜单 OUTPUT

Cable AUTO connect

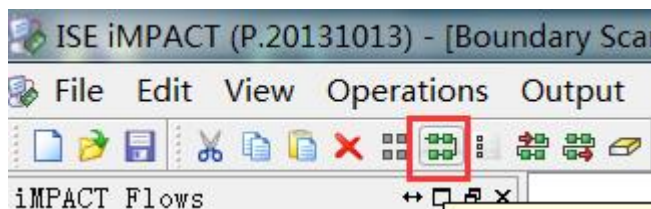
执行后可以看到



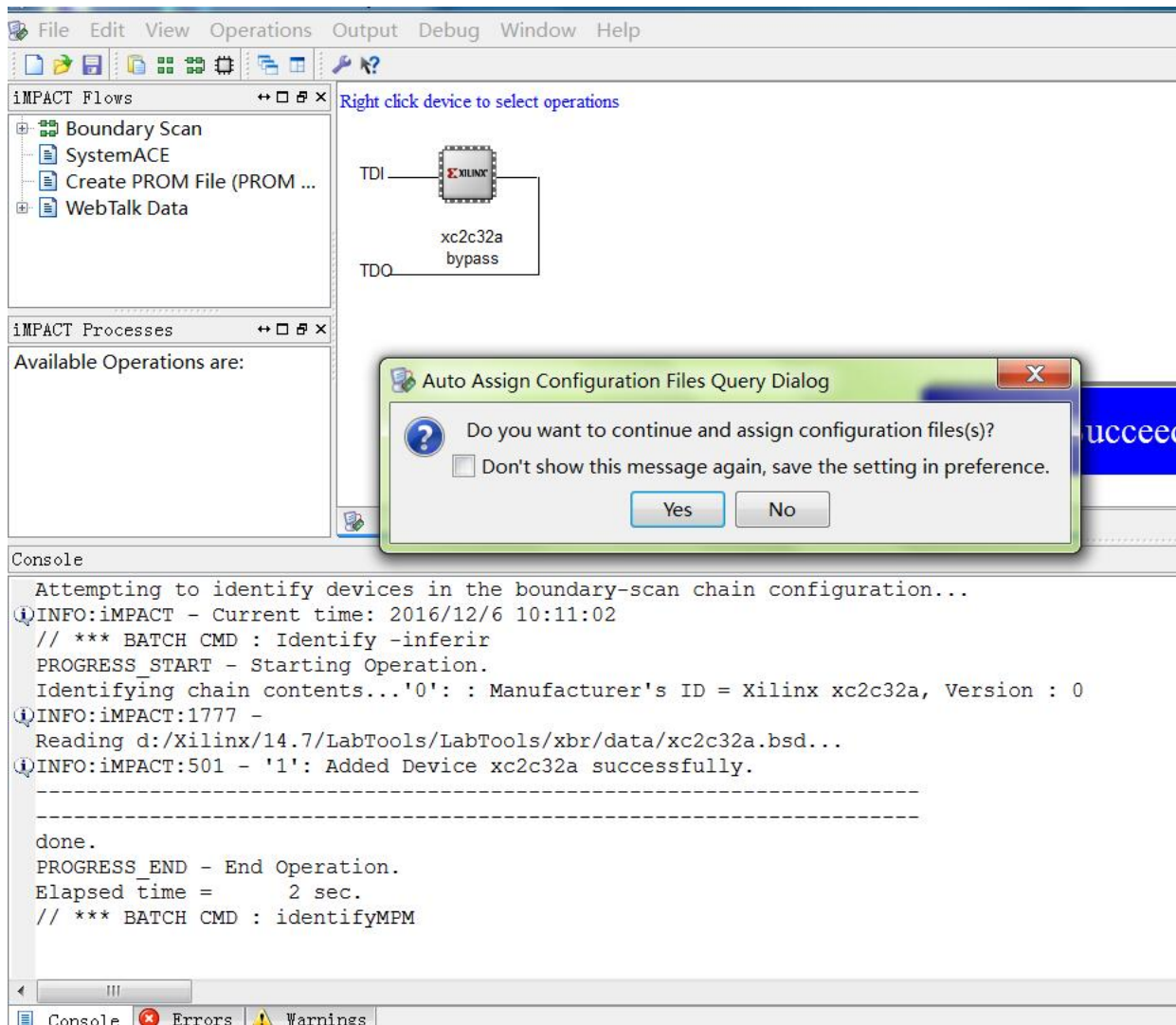
可以看到如下仿真器的信息，



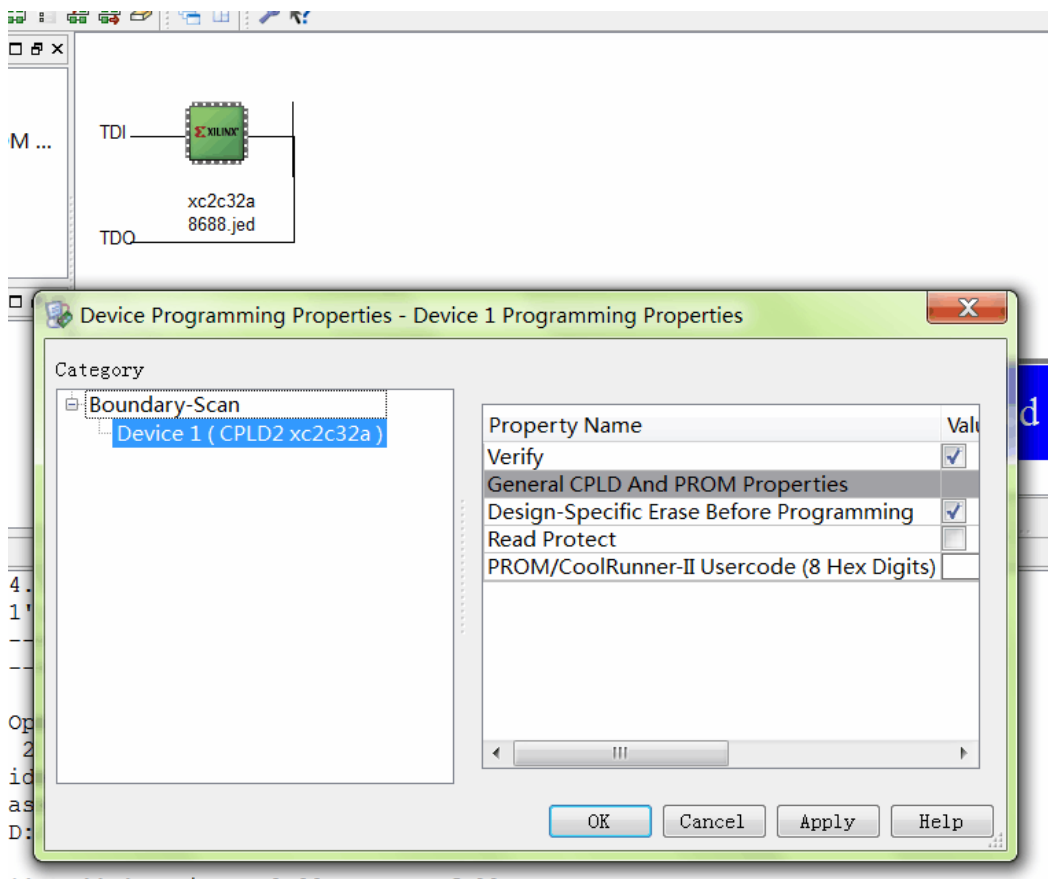
执行检测芯片



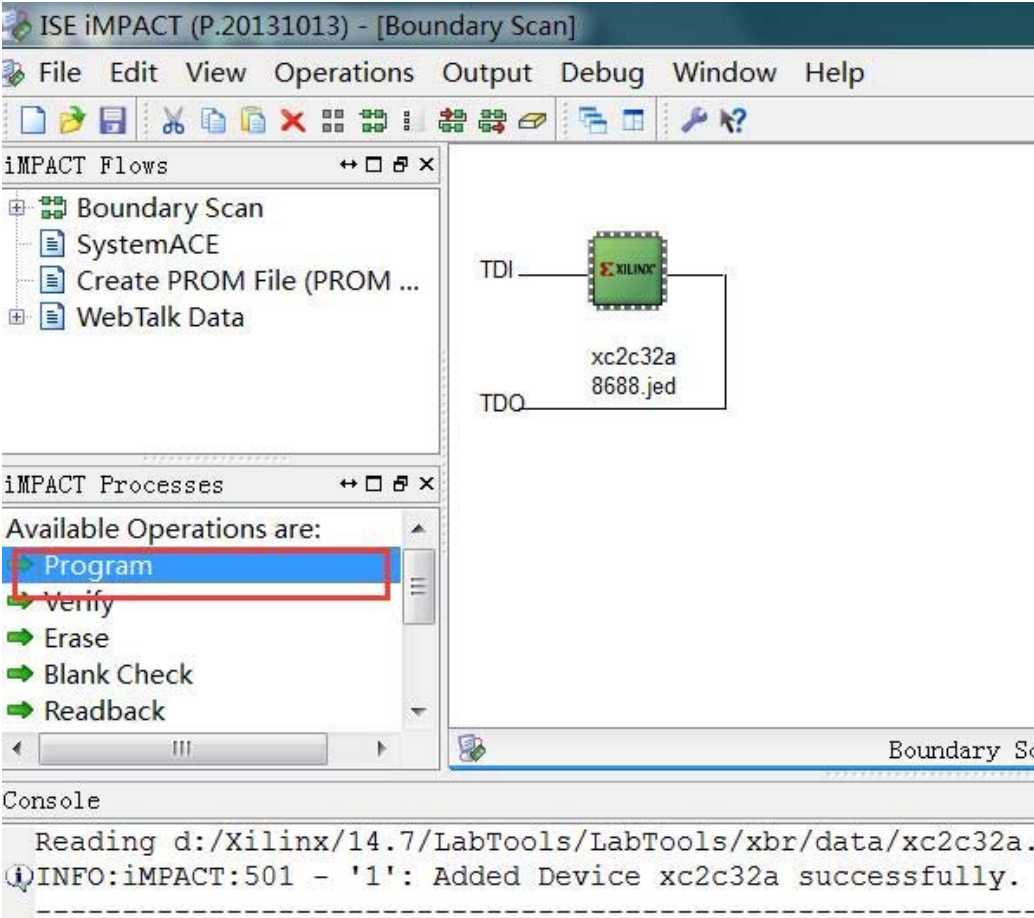
识别出芯片后加载 JED 文件



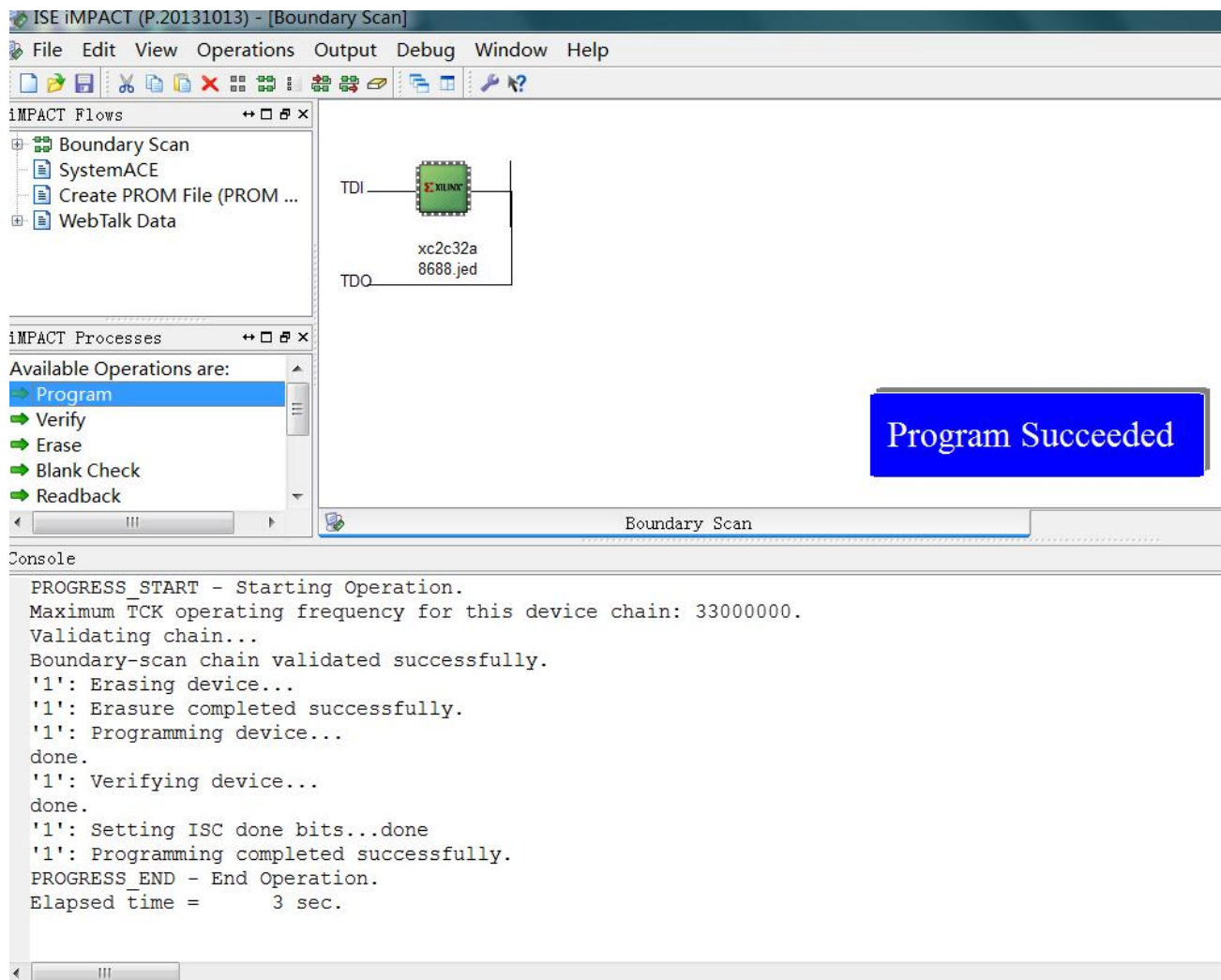
设置编程项目:



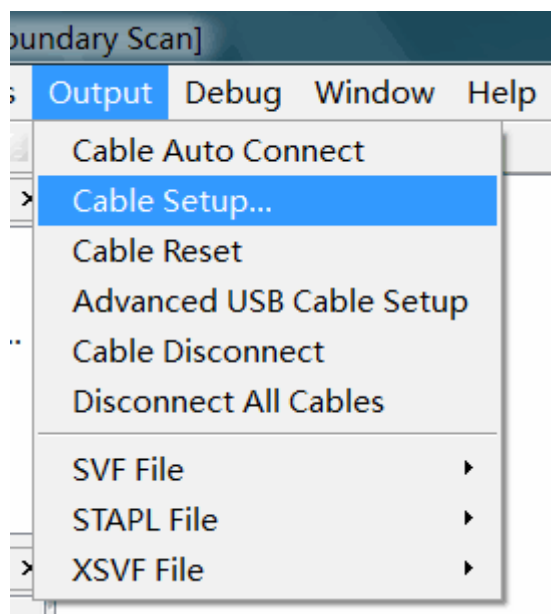
对芯片进行烧录编程



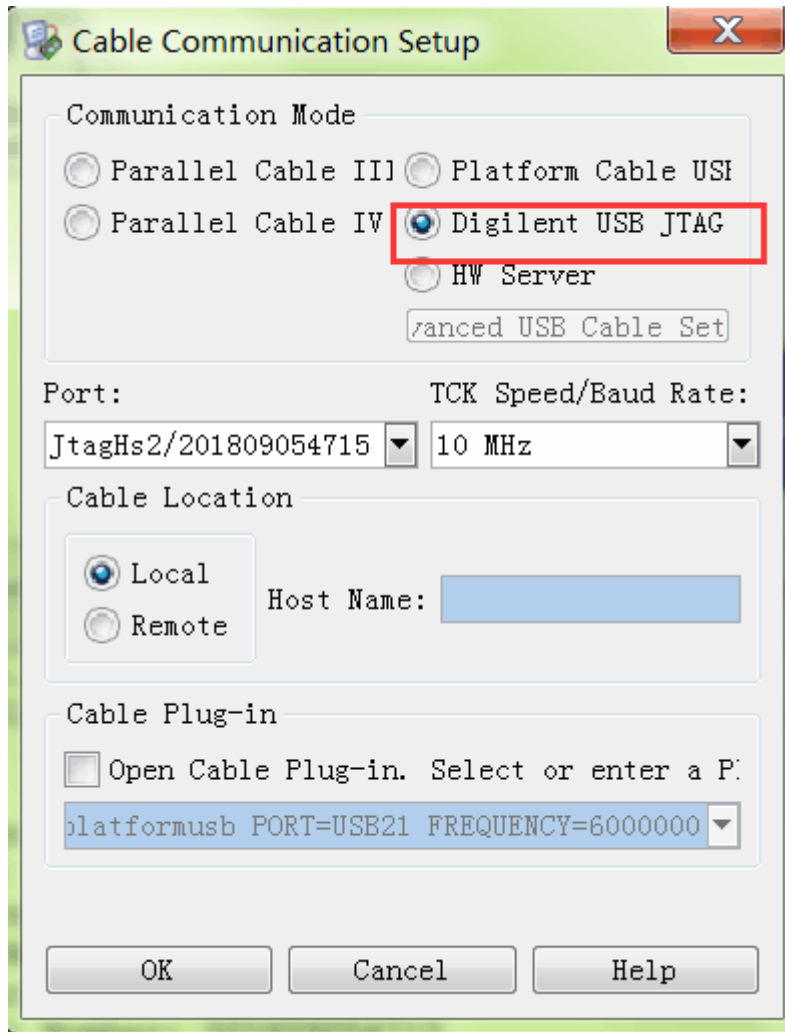
编程成功:



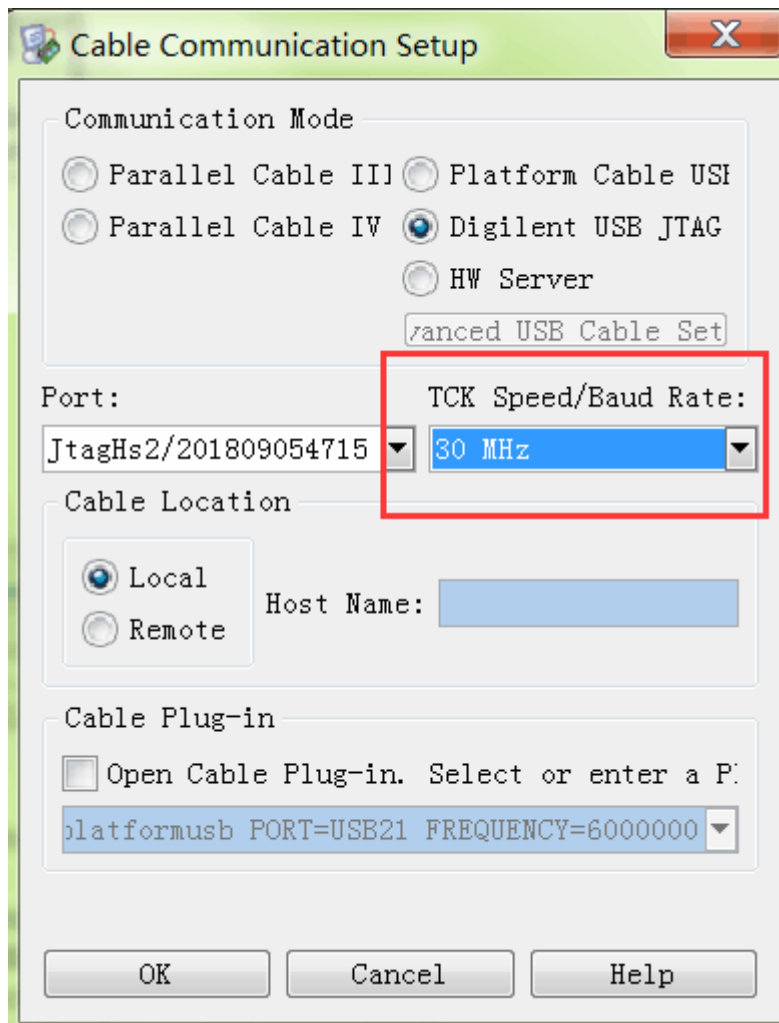
配置仿真器:



选: Digilent USB JTAG



时钟速度调至：30M

The dialog box is titled "Cable Communication Setup" and has a standard Windows window border with a close button (X) in the top right corner. It contains several sections: "Communication Mode" with radio buttons for "Parallel Cable III", "Platform Cable USB", "Parallel Cable IV", "Digilent USB JTAG" (which is selected), and "HW Server". Below these is a text field containing "Advanced USB Cable Set". The "Port:" section has a dropdown menu showing "JtagHs2/201809054715" and a "TCK Speed/Baud Rate:" dropdown menu showing "30 MHz", which is highlighted with a red rectangle. The "Cable Location" section has radio buttons for "Local" (selected) and "Remote", followed by a "Host Name:" text field. The "Cable Plug-in" section has a checkbox for "Open Cable Plug-in. Select or enter a P." and a dropdown menu showing "platformusb PORT=USB21 FREQUENCY=6000000". At the bottom are three buttons: "OK", "Cancel", and "Help".

Cable Communication Setup

Communication Mode

☐ Parallel Cable III ☐ Platform Cable USB

☐ Parallel Cable IV ☒ Digilent USB JTAG

☐ HW Server

Advanced USB Cable Set

Port: JtagHs2/201809054715 TCK Speed/Baud Rate: 30 MHz

Cable Location

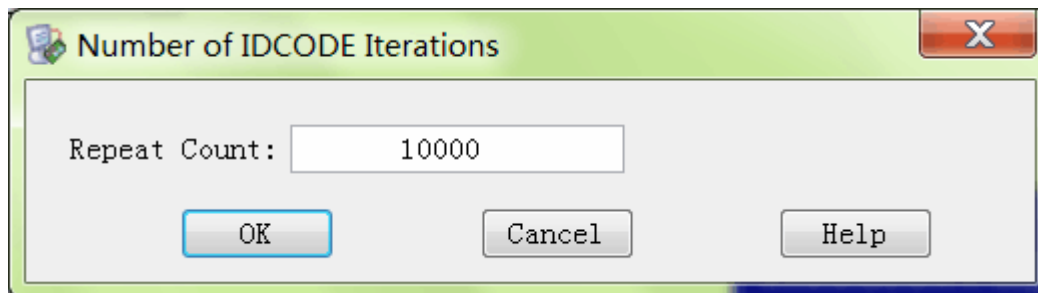
☒ Local ☐ Remote Host Name:

Cable Plug-in

☐ Open Cable Plug-in. Select or enter a P.

platformusb PORT=USB21 FREQUENCY=6000000

OK Cancel Help

The dialog box is titled "Number of IDCODE Iterations" and has a standard Windows window border with a close button (X) in the top right corner. It contains a "Repeat Count:" label followed by a text field containing the value "10000". At the bottom are three buttons: "OK", "Cancel", and "Help".

Number of IDCODE Iterations

Repeat Count: 10000

OK Cancel Help

ISE iMPACT (P.20131013) - [Boundary Scan]

File Edit View Operations Output Debug Window Help

IMPACT Flows

- Boundary Scan
- SystemACE
- Create PROM File (PROM ...)
- WebTalk Data

IMPACT Processes

Available Operations are:

- Program
- Verify
- Erase
- Blank Check
- Readback

Diagram:

TDI

xc2c32a

8688.jed

TDO

Boundary Scan

Console

```
// *** BATCH CMD : CheckIdcode -p 1
Maximum TCK operating frequency for this device chain: 33000000.
Validating chain...
Boundary-scan chain validated successfully.
IDCODE Loop Count = 10000
INFO:iMPACT - Current time: 2016/12/6 10:16:10
// *** BATCH CMD : ReadIdcode -loop 10000 -p 1
PROGRESS_START - Starting Operation.
Maximum TCK operating frequency for this device chain: 33000000.
Validating chain...
Boundary-scan chain validated successfully.
'1': IDCODE loop completed successfully 10000 times.
PROGRESS_END - End Operation.
Elapsed time = 2 sec.
```