code：Measure Break Junctions

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```
Function MeasureBreakJunctions()
        NVAR PullOutNumber= G_PullOutNumber
        NVAR StopNumber= G_StopNumber
```
//saved和Stop的trace数
```
        NVAR PullOutAttempt= G_PullOutAttempt
        NVAR SingleAttemptFlag= G_SingleAttemptFlag

        Variable keys

        if (PullOutNumber>=StopNumber)
                return 0
        endif
```
//判断是否测试完

```
        CreateInputs()   // Makes waves for applied bias and piezo
```
//生成bias和piezo的wave

```
        SetUpHRTaskID1()
```
// 注释：sets up G_ID1 task for both voltage and current reading by high-res card in make contact, generate trace and voltage offset estimate.

猜测：这里调用NI来执行高分辨率任务，同时读取电压和电流，并生成trace。

```
        SetUpLRTaskID3()
```
// LowRes card reads 3 channels: Piezo voltage in and Thermocouple voltages。

执行低分辨率任务，来读取压电电压和热电偶电压。

```
                do        // Generate desired data

                        SmashFun()

                        if (SingleBreakJunctionAttempt()==-1)
                                ClearHRTaskID1()
                                ClearLRTaskID3()
                                return -1
                        endif

                        keys= GetKeyState(0)
                        if(keys==2)
                                ClearHRTaskID1()
                                ClearLRTaskID3()
                                return 0
                        endif
```

```
                    if (PullOutAttempt>=1000000000)
                        ClearHRTaskID1()
                        ClearLRTaskID3()
                        Print "Catastrophic failure"
                        return 0
                    endif

                    if (SingleAttemptFlag==1)
                        return 0
                    endif
                    //设置一些报错条件
              while (PullOutNumber<StopNumber)

        ClearHRTaskID1()
        ClearLRTaskID3()

  End
```