

Hausdorff Distance 脚本测试

创建一个半径为 2cm 的球

Create Sphere ROI

Size and position specification

Radius [cm]: 2.00

Center:

Geometric Center of ROI:

Geometric Center of POI:

Ref

Manual

Right-Left [cm]: 0.00

Inf-Sup [cm]: 0.00

Post-Ant [cm]: 0.00

Output

Create geometry for:

Existing ROI

circle

New ROI

Name:

Type:

Undefined

Color:

OK

Cancel

创建一个同心的半径为 5cm 的球

Create Sphere ROI

Size and position specification

Radius [cm]: 5.00

Center:

☐ Geometric Center of ROI:

☒ Geometric Center of POI:

● Ref

☐ Manual

Right-Left [cm]: 0.00

Inf-Sup [cm]: 0.00

Post-Ant [cm]: 0.00

Output

Create geometry for:

☒ Existing ROI

■ circle2

☐ New ROI

Name:

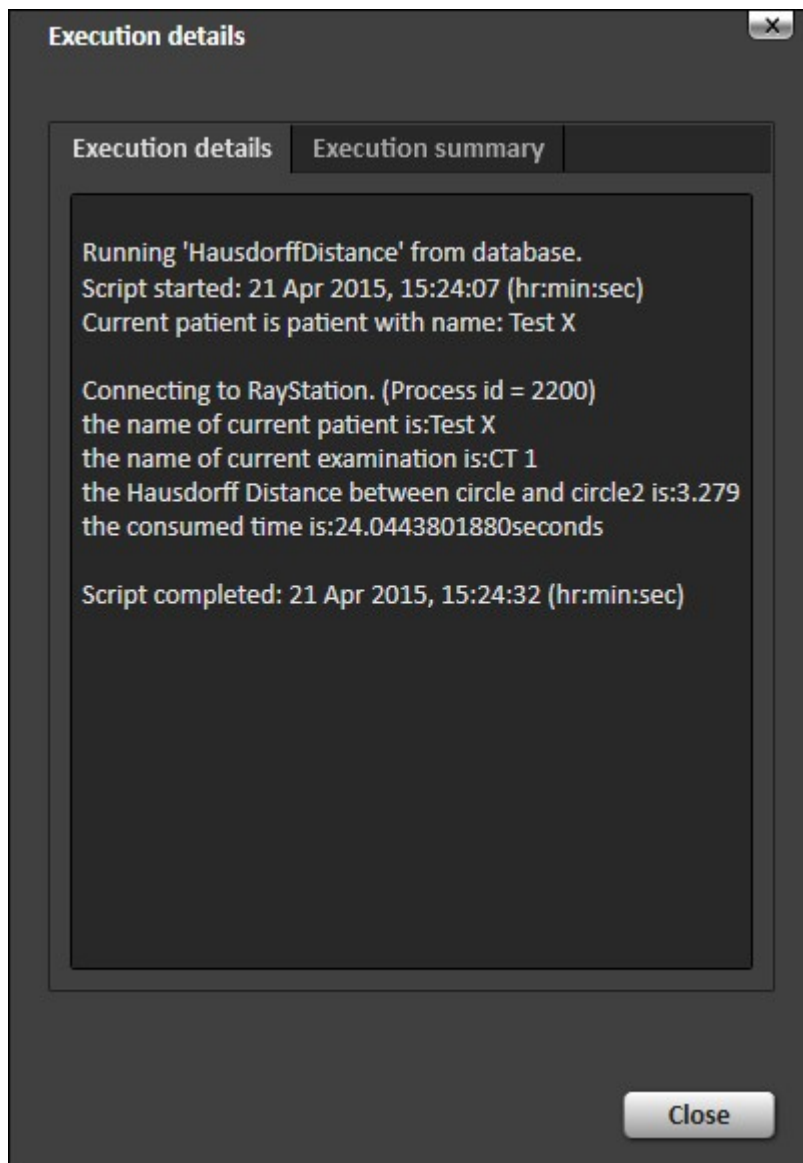
Type: Undefined

Color:

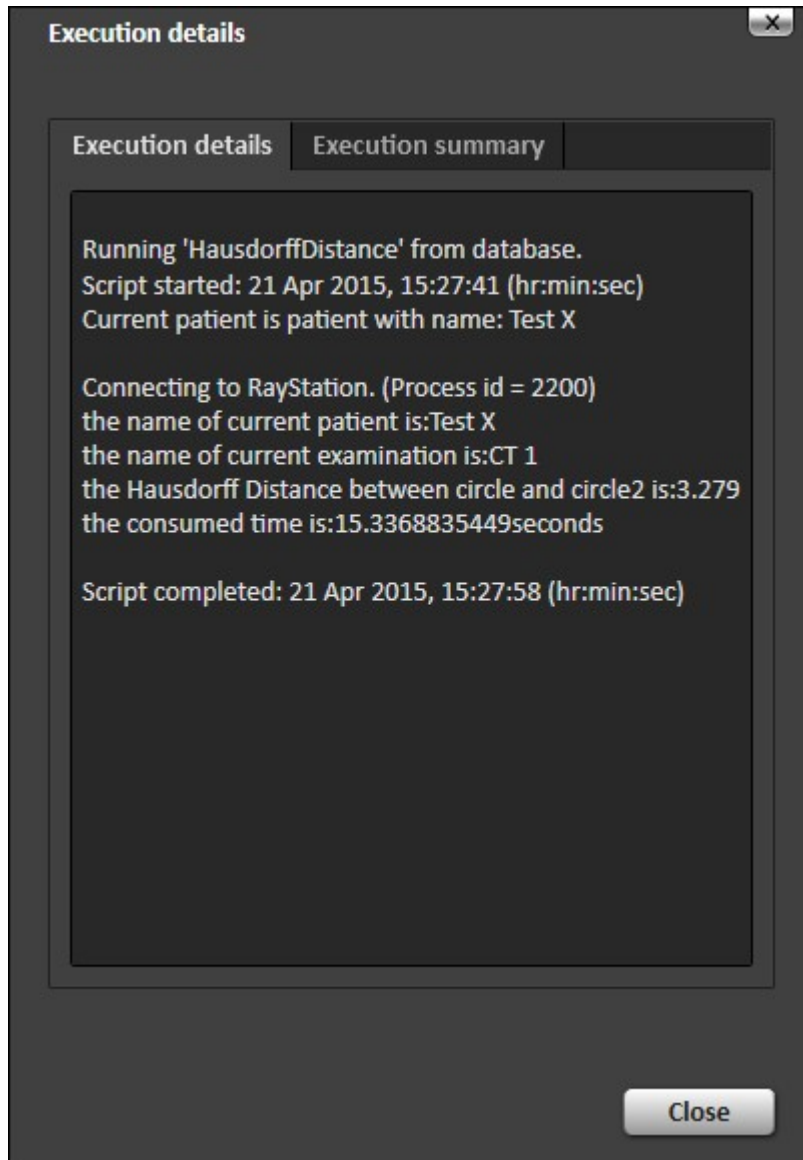
OK

Cancel

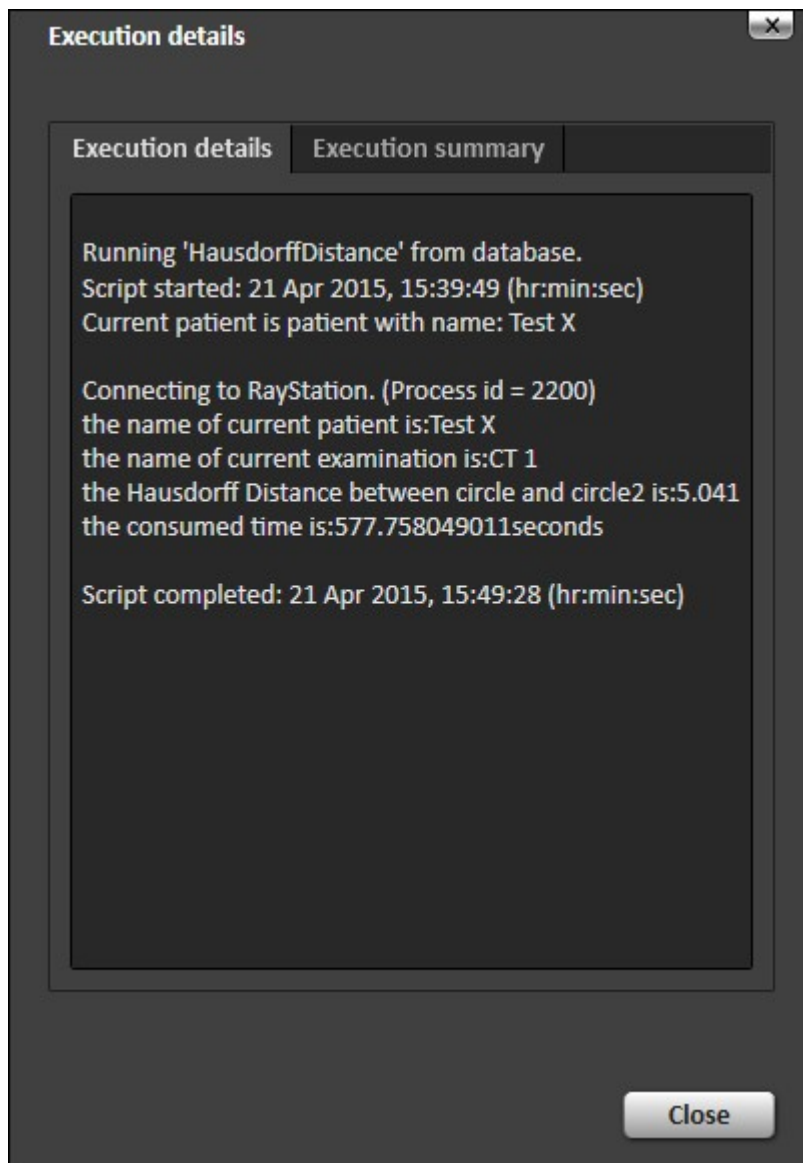
运行脚本，输出结果为 3.279，消耗时间 24s



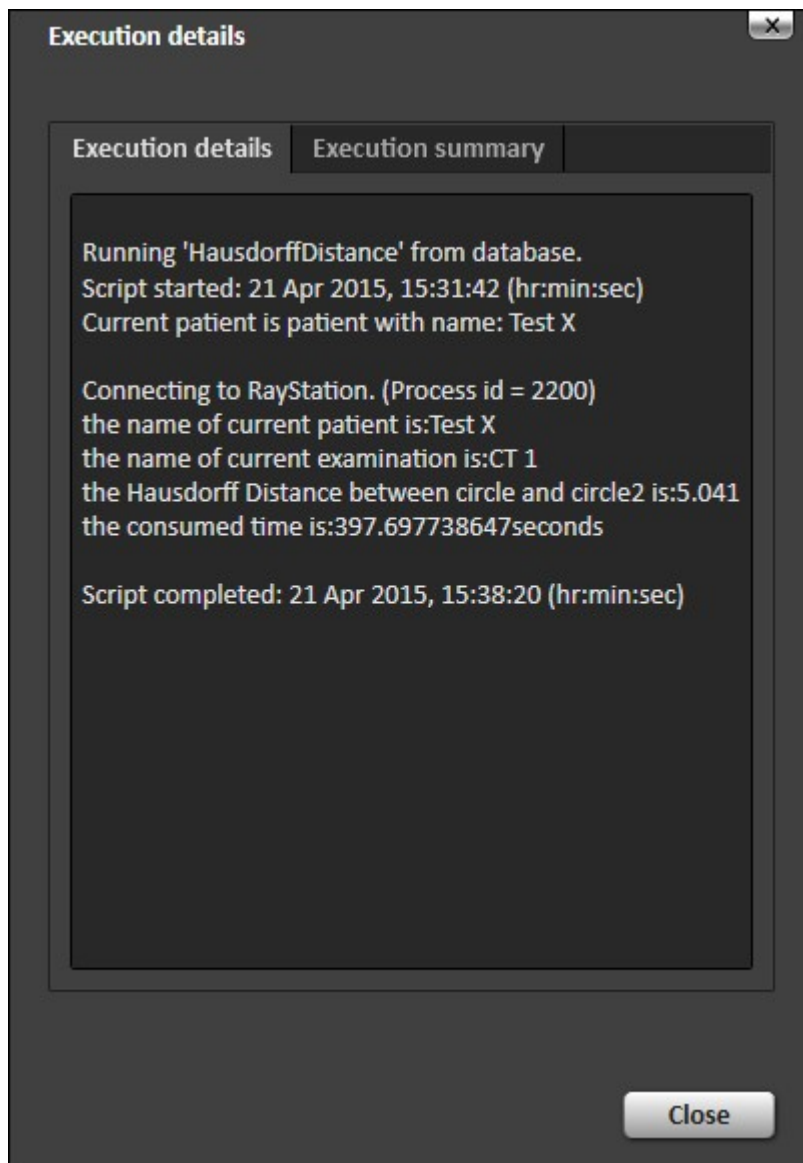
运行多线程脚本，输出结果为 3.279，消耗时间为 15s



修改球的半径分别为 5cm 和 10cm
脚本结果为 5.041，消耗时间 577s



多线程脚本结果为 5.041，消耗时间 397s



结论：多线程脚本运行消耗时间少

V2 版本测试

circle 和 circle2 分别是半径 2cm 和 5cm 的同心圆,测试结果如下:

Execution details

Execution details

Execution summary

Running 'HausdorffDistance_V2' from database.
Script started: 04 May 2015, 11:32:42 (hr:min:sec)
Current patient is patient with name: Eclipse^IMRT^Rad

Connecting to RayStation. (Process id = 6420)
the name of current patient is:Eclipse^IMRT^Rad
the name of current examination is:CT 1
the Hausdorff Distance between circle and circle2 is:3.042
the consumed time is:7.01439666748seconds

Script completed: 04 May 2015, 11:32:51 (hr:min:sec)

Close