

Miss Manners Test



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Abstract

“Miss Manners” is a performance benchmark for rule engines. The scenario is as follows:

“Miss Manners has invited guests with various hobbies to a dinner party. She wants to seat the guests in male-female-male-female arrangement so that each guest will have someone on the left or right that has a common hobby.”

This example will allow you to do the following in TIBCO BusinessEvents®:

- Run the benchmark.
- Examine and run a sample TIBCO BusinessEvents API program.

Configuration

Project Location and Content

The TIBCO BusinessEvents Studio project that implements the benchmark can be found at:

TIBCO_BE_HOME/examples/standard/MissManners/MissMannersProject

This project contains the following folders:

Deployment: Contains the Enterprise Archive resources:

- **MissManners_8Guests:** Use this to run the benchmark in the 8-guests configuration.
- **MissManners_API:** Use this to run the sample API program. See 'Deployment and Running' section.

Functions: Contains the rule functions used for computation of seat assignment and for print jobs.

Model: Contains the entity resources with their definition and properties.

Rules: Contains the rules for the seat assignment. These rules are explained briefly as follows:

- **AssignFirstSeat:** Assigns the first seat to one of the guests.
- **AssignSeat:** Assigns all the remaining seats to the remaining guests.
- **PrintResult:** This rule prints the total time taken for the entire process of seat assignment as well as the final seating arrangement.
- **Start:** Starts the seat assignment process.
- **Reset:** Resets all the seats assignments.

Deploying and Running

Benchmark

1. Open the project 'MissMannersProject' using TIBCO BusinessEvents Studio.
2. Build an EAR file using the Project->Build Enterprise Archive command.
3. Start the TIBCO BusinessEvents engine with MissManners_8Guests.cdd from the Deployment folder of the project.
4. Check the test results in the log file:

```

MissManners_8Guests-MissManners_8Guests.log - Notepad
File Edit Format View Help
2006 Nov 22 17:44:15:904 GMT -8 MissManners_8Guests-MissManners_8Guests Info [main] - TIBCO BusinessEvents Inference Edition 2.0.0.34 -p
C:/tibco/tra/domain/varun/application/MissManners_8Guests/MissManners_8Guests-MissManners_8Guests.tra -name MissManners_8Guests-MissManners_8Guests
2006 Nov 22 17:44:16:054 GMT -8 MissManners_8Guests-MissManners_8Guests Info [main] - HawkMicroAgent using RV service=7475 network=; daemon=tcp:7474
2006 Nov 22 17:44:16:465 GMT -8 MissManners_8Guests-MissManners_8Guests Info [main] - Loading the project from:
tibco@varun-MissManners_8Guests:service=7500:daemon=tcp:7500:user=admin:server=varun:password=#!h]C8G158jLn0jdfKiNdhD9BsvcyRT9P0K9rfD7xexBs=
2006 Nov 22 17:44:28:984 GMT -8 MissManners_8Guests-MissManners_8Guests Info [main] - Loaded the project successfully
2006 Nov 22 17:44:28:984 GMT -8 MissManners_8Guests-MissManners_8Guests Info [main] - Registering ontology classes...
2006 Nov 22 17:44:29:735 GMT -8 MissManners_8Guests-MissManners_8Guests Info [main] - Registered ontology classes
2006 Nov 22 17:44:29:755 GMT -8 MissManners_8Guests-MissManners_8Guests Info [main] - EAR generated with:
edition: TIBCO BusinessEvents Inference Edition
bebaw: version 2.0.0.34, 2006-11-21
common: version 2.0.0.34, 2006-11-21
container: version 2.0.0.34, 2006-11-21
drivers: version 2.0.0.34, 2006-11-21
functions: version 2.0.0.34, 2006-11-21
kernel: version 2.0.0.34, 2006-11-21
palettes: version 2.0.0.34, 2006-11-21
2006 Nov 22 17:44:30:046 GMT -8 MissManners_8Guests-MissManners_8Guests Info [main] - [DefaultSession] RuleSet /rules/Normal deployed
2006 Nov 22 17:44:30:096 GMT -8 MissManners_8Guests-MissManners_8Guests Info [main] - [DefaultSession] RuleSet /rules/Normal Rule class
be.gen.Rules.Normal.AssignSeat added
2006 Nov 22 17:44:30:106 GMT -8 MissManners_8Guests-MissManners_8Guests Info [main] - [DefaultSession] RuleSet /rules/Normal Rule class
be.gen.Rules.Normal.Start added
2006 Nov 22 17:44:30:106 GMT -8 MissManners_8Guests-MissManners_8Guests Info [main] - [DefaultSession] RuleSet /rules/Normal Rule class
be.gen.Rules.Normal.AssignFirstSeat added
2006 Nov 22 17:44:30:106 GMT -8 MissManners_8Guests-MissManners_8Guests Info [main] - [DefaultSession] RuleSet /rules/Normal Rule class
be.gen.Rules.Normal.Reset added
2006 Nov 22 17:44:30:106 GMT -8 MissManners_8Guests-MissManners_8Guests Info [main] - [DefaultSession] RuleSet /rules/Normal Rule class
be.gen.Rules.Normal.PrintResult added
2006 Nov 22 17:44:30:136 GMT -8 MissManners_8Guests-MissManners_8Guests User [main] - [DefaultSession] Start testing...
2006 Nov 22 17:44:30:136 GMT -8 MissManners_8Guests-MissManners_8Guests User [main] - [DefaultSession] First Guest: A
2006 Nov 22 17:44:30:136 GMT -8 MissManners_8Guests-MissManners_8Guests User [main] - [DefaultSession] Num of Guests: 8
2006 Nov 22 17:44:30:156 GMT -8 MissManners_8Guests-MissManners_8Guests User [main] - [DefaultSession] Total Search Time: 20ms
2006 Nov 22 17:44:30:156 GMT -8 MissManners_8Guests-MissManners_8Guests User [main] - [DefaultSession] Result: A(m,[xxx,yyy])>H(f,[zzz,
yyy])>C(m,[zzz,1111])>D(f,[3333,555])>E(m,[2222,3333])>B(f,[1111,2222])>G(m,[555,666])>F(f,[666,yyy])
2006 Nov 22 17:44:30:166 GMT -8 MissManners_8Guests-MissManners_8Guests Info [main] - Hot Deployment disabled
2006 Nov 22 17:44:30:166 GMT -8 MissManners_8Guests-MissManners_8Guests Info [main] - Engine MissManners_8Guests-MissManners_8Guests started
  
```

API

1. Open the project 'MissMannersProject' using TIBCO BusinessEvents Studio.
2. Using the Project->Build Enterprise Archive command, create an EAR file named 'MissManners_API.ear' in the directory
`TIBCO_BE_HOME/examples/standard/MissManners/MissMannersAPI/bin`
*[Note: You may have to change the value of **File Location**.]*
3. Update the various paths, in the following file, to match your environment:
`TIBCO_BE_HOME/examples/standard/MissManners/MissMannersAPI/bin/setenv.bat`
4. Compile the API program by running MissMannersCompile.bat:
`TIBCO_BE_HOME/examples/standard/MissManners/MissMannersAPI/bin/MissMannersCompile.bat`
5. Run the API program by running MissMannersRun.bat:
`TIBCO_BE_HOME/examples/standard/MissManners/MissMannersAPI/bin/MissMannersRun.bat`
Note: You can change the number of guests used in the test by changing INPUT_DATA_PATH.
For example:
`SET INPUT_DATA_PATH=%MISSMANNERS_HOME%\MissMannersAPI\inputData\mann256.dat`
6. Observe the results in the output of the MissMannersRun.bat command.