



Advanced Parallel Job Techniques

The DataStage® Advanced Parallel Job Techniques class is an instructor-led class designed to be delivered on-site, at your business location or a nearby training facility, in a training room equipped with one PC per student and connectivity to a DataStage server.

Duration: Variable (1 to 5 days - see below)

Prerequisite:

Prior to attending the Advanced Parallel Job Techniques class each student must have attended either IBM's DataStage Essentials (Enterprise Edition) class or On Demand Strategies, Inc. DataStage Fundamentals - Enterprise Edition class. An assessment of preparedness may be required to be completed.

Objectives:

Having completed this class the student will be able to:

- configure partitioning, sorting and buffering optimally
- make use of inbuilt reporting and troubleshooting tools
- create jobs that work with vectors and subrecord types
- implement change detection and surrogate key management
- employ parallelism in Enterprise stage types

Contents:

The Advanced Parallel Job Techniques Class is constructed from the following thirteen modules. The class can be delivered in variable amounts of time from 1 day to 5 days. The first four modules must be included, and require one day. The remaining nine modules, if taken, must be taken in the order specified and require one half-day each. All thirteen modules can be delivered in five teaching days.

1. Review of the parallel execution framework (architecture)
2. Partitioning and collecting techniques
3. Sorting techniques
4. Buffering
5. Managing resource allocation and performance tuning
6. DB2 Enterprise stage
7. Oracle Enterprise stage
8. Teradata stages
9. Monitoring: the OSH and the Score
10. Vectors and Subrecords and handling structured and raw data
11. Change detection techniques (vectors and subrecords module must also be selected)
12. Surrogate key management in a parallel environment
13. Troubleshooting and debugging

Note: The three database stage modules require connectivity to the appropriate database type to have been installed, configured and tested successfully.

Courseware:

Each student receives the following two documents.

1. Student notes: PowerPoint presentation with detailed notes pages.
2. Lab Exercises: Detailed instructions for "hands on" exercises to reinforce learning

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