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# Constraints and Extended Support for Storage and Access

## Fact Sheet

### Project Information

**CONTESSA**

Grant agreement ID: 8666

Project closed

**Start date**

1 January 1994

**End date**

31 December 1996

**Funded under**

Specific research and technological development programme (EEC) in the field of information technologies, 1990-1994


**Total cost**

No data

**EU contribution**

No data

**Coordinated by**

European Computer-Industry  
Research Centre GmbH  
 Germany

## Objective

The main objective of this proposal is to study the storage of constraints in databases, the use of constraint handling techniques in database query and update, and the incorporation of constraints in object data modelling and database specification. The recent success of the constraint-based programming paradigm is based on the direct contribution of constraints to program specification, implementation and maintenance. Constraints are the normal language of discourse for many high-level applications; built-in constraint solvers and active constraints contribute to efficient implementation; and the clarity and brevity of constraint

programs simplify program maintenance.

## ACTIVITIES

The formal properties of constraints in databases and database queries will be studied; their role in query optimisation; the consequences of stored constraints on database indexing; constraints on stored objects; and the relationship between active constraints and integrity constraints. On the practical side, the focus is on supporting the decision making process by the application of constraint handling techniques to large scale geographical data bases. The techniques will also be applied to commercially motivated problems of scheduling and tutoring. It is planned to use the working group to build a long-lasting European Interest Group which will drive and exploit continuing research and development in the field of Constraint Databases. Through regular workshops, it is hoped to attract representatives of European industry and the public sector, as well as the academic community.

## POTENTIAL

We seek to lay the foundations for a technology with considerable market potential. Within Europe there is a firmly established need for systems supporting complex information and decision making. We identify in particular: the aerospace industry; earth observation; air and ground transportation control; telecommunications network planing and signal routing; town and environmental planning; and production, maintenance and servicing in manufacturing.

## Fields of science (EuroSciVoc)

[natural sciences](#) > [computer and information sciences](#) > [databases](#)

[engineering and technology](#) > [electrical engineering](#), [electronic engineering](#), [information engineering](#) > [information engineering](#) > [telecommunications](#) > [telecommunications networks](#)



## Programme(s)

[FP3-ESPRIT 3 - Specific research and technological development programme \(EEC\) in the field of information technologies, 1990-1994](#)

## Topic(s)

Data not available

# Call for proposal

Data not available

# Funding Scheme

Data not available

# Coordinator



European Computer-Industry Research Centre GmbH

EU contribution

No data

Total cost

No data

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# Participants (6)



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[HORIZON collaboration network](#)

Total cost

No data




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EU contribution

**No data**

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Total cost

**No data**



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Total cost

**No data**



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Total cost

**No data**



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EU contribution

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Total cost

**No data**



## UNIVERSITY OF TWENTE

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EU contribution

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Total cost

**No data**

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