The TRACS Web Database

EPCC Summer Scholarship
Programme 2001

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What is TRACS?

- Training and Research on Advanced Computing Systems
- EC Funded
- Hosted By EPCC
- Code Development
- Terminals distributed to host departments

What is the TRACS Web Database?

- Web interface giving access to a database
- Started by Mario, Elena and Elson
- Intended to track EPCC terminals
- Expanded to hold other TRACS information

System at the start of the SSP : Database

- Originally designed by Elson
- Expanded by Mario and Elena
- MySQL based

System at the start of the SSP : Scripts

- Written in perl
- Using the DBI
- Completed table routines
- Separate script for each table
- Limited update/insert routines
- Again, separate scripts
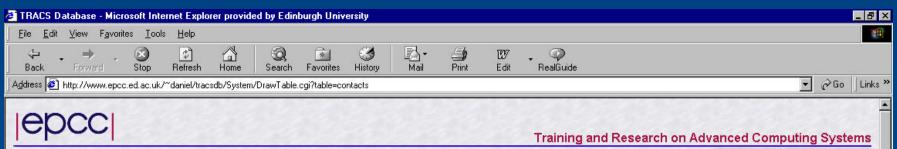- Admin layer

Project objectives

- Generalise the database accessing routines
- Complete the current implementation
- Create different views
- Extend admin layer
- Extend the database

Overview of the current system

- General table routine
- General update/insert routine
- Different views
- Admin layer
- www.epcc.ed.ac.uk/~daniel/tracsdb/System/
- Username: view Password: viewdata

General table routine

- One script
- Replaces the initial scripts
- Handles database expansion
- Uses table definitions

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[Admin] [Visits] [Visitors] [Machines] [Hosts] [Contacts] [Locations] [Addresses] [SysAdmins] [CPUs] [Monitors] [Keyboards]

Table Name = contacts

Id [new record]	Name	Email	Status
15[view/edit]	Catherine Inglis	cafi@epcc.ed.ac.uk	unavailable
1[view/edit]	Elena Breitmoser	elena@epcc.ed.ac.uk	available
10[view/edit]	Gavin Pringle	gavin@epcc	unavailable
3[view/edit]	Jean-Christophe Desplat	desplat@epcc.ed.ac.uk	available
13[view/edit]	Kira Smyllie	kira@epcc.ed.ac.uk	available
2[view/edit]	Mario Antonioletti	mario@epcc.ed.ac.uk	available
11[view/edit]	Mark Bull	markb@epcc.ed.ac.uk	available
12[view/edit]	Roger Hare	r.j.hare@ed.ac.uk	available
▲ ▼ G	▲ ▼ G	▲ ▼ G	▲ ▼ G
Remove ordering: R Default ordering: D Remove grouping: R Default grouping: D			

Control button functions

Use of these removes any existing order/grouping

▲ Order table by this column (ascending)

▼ Order table by this column (descending)

G Group table by this column

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[Admin] [Visits] [Visitors] [Machines] [Hosts] [Contacts] [Locations] [Addresses] [SysAdmins] [CPUs] [Monitors] [Keyboards]

Table Name = research_visits

Id [new record]	Visitors	Start Date	End Date	Machines	Hosts	Contacts
2 [view/edit]	Gustavo Romero	09/01/2002	28/02/2002		Ben Paechter[view]	Mario Antonioletti[view]
7 [view/edit]	Adina Florea	19/02/2001	07/09/2001			
6 [view/edit]	Paul Cristea	19/02/2001	07/10/2001			
5 [view/edit]	Remi Coudarcher	06/02/2001	18/03/2001		G. Michaelson[view]	Mario Antonioletti[view]
3 [view/edit]		15/01/2001	10/02/2001		W. Müller[view]	Jean-Christophe Desplat[view]
4 [view/edit]	Eric Cormier	15/01/2001	16/02/2001			

▲ ▼ G   ▲ ▼ G   ▲ ▼ G   ▲ ▼ G   ▲ ▼ G   ▲ ▼ G   ▲ ▼ G

Remove ordering: R   Default ordering: D   Remove grouping: R   Default grouping: D

Control button functions

Use of these removes any existing order/grouping

▲ Order table by this column (ascending)

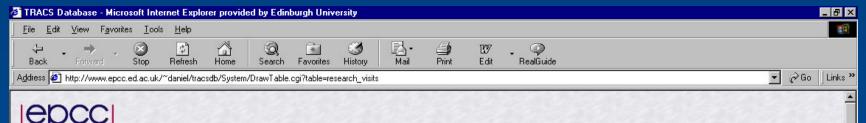▼ Order table by this column (descending)

G Group table by this column

	key	
Past	Current	Future

General update/insert routine

- One script
- View data
- Edit data
- Create data
- Handles expansion

File   Edit   View   Favorites   Tools   Help

Back   Forward   Stop   Refresh   Home   Search   Favorites   History   Mail   Print   Edit   RealGuide

Address   http://www.epcc.ed.ac.uk/~daniel/tracsdb/System/ChangeData.cgi?view=research_visits+2!noedit#research_visits

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[Admin] [Visits] [Visitors] [Machines] [Hosts] [Contacts] [Locations] [Addresses] [SysAdmins] [CPUs] [Monitors] [Keyboards]

TRACS

View Current TRACS Visit

Visit ID	2
Visitor	Gustavo Romero [View Details]
Start Date	09/01/2002
End Date	28/02/2002
Machine Associations	2001-01-09 [View]
Host Associations	Ben Paechter, 2001-01-09 [View]
Contact Associations	Mario Antonioletti, 2001-01-09 [View]

[Admin] [Visits] [Visitors] [Machines] [Hosts] [Contacts] [Locations] [Addresses] [SysAdmins] [CPUs] [Monitors] [Keyboards]

Page generated: Fri Aug 24 14:53:36 BST 2001

Local intranet

Start   1:52

File   Edit   View   Favorites   Tools   Help

Back   Forward   Stop   Refresh   Home   Search   Favorites   History   Mail   Print   Edit   RealGuide

Address http://www.epcc.ed.ac.uk/~daniel/tracsdb/System/ChangeData.cgi?view=research_visits+2!edit#research_visits

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[Admin] [Visits] [Visitors] [Machines] [Hosts] [Contacts] [Locations] [Addresses] [SysAdmins] [CPUs] [Monitors] [Keyboards]

TRACS

Edit Current TRACS Visit

Visit ID	2
Visitor	Gustavo Romero [Edit Details]

Gustavo Romero
Javier Roca
Mario Antonioletti
Ondrej Jakl
Paul Cristea
Paul Dan Cristea
Remi Coudarcher
Silvia Castellaro

Start Date   09 / 01 / 2002 (dd/mm/yyyy)

End Date   28 / 02 / 2002 (dd/mm/yyyy)

[Apply changes]   [Reset values]

Machine Associations [New entry]
2001-01-09 [Edit]

Host Associations [New entry]
Ben Paechter, 2001-01-09 [Edit]

Contact Associations [New entry]
Mario Antonioletti, 2001-01-09 [Edit]

[Admin] [Visits] [Visitors] [Machines] [Hosts] [Contacts] [Locations] [Addresses] [SysAdmins] [CPUs] [Monitors] [Keyboards]

Local intranet

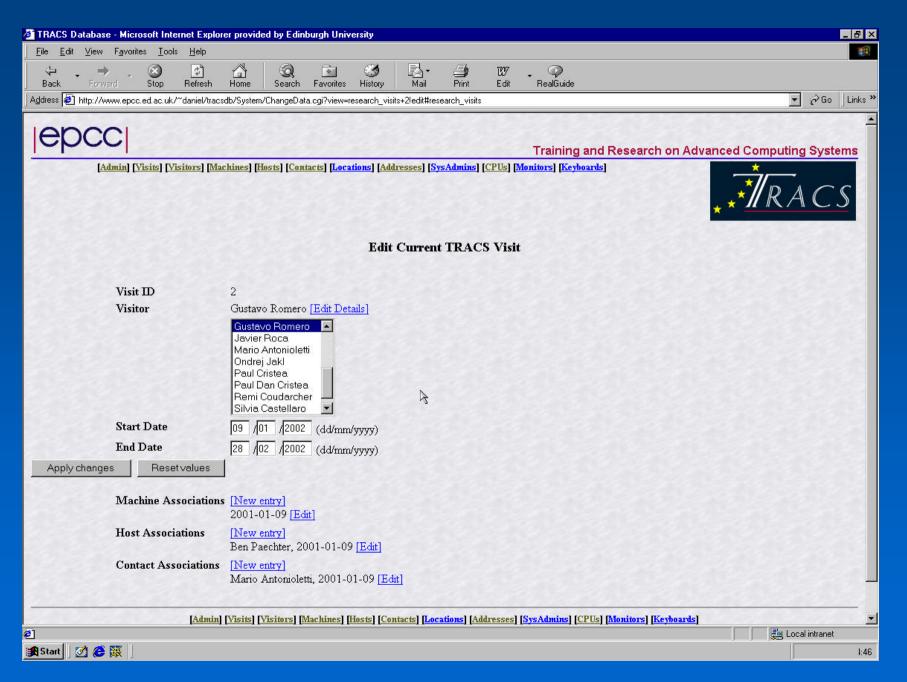Start   1:46

Different views

- Different access permissions
- Allows individual table selection
- Administration
- All staff
- Systems

The future for the web database

- Extend the database
- RCS diary
- Application information
- Automatic data entry from application

Questions?