Deployment census

VAMDC PM1
April, 2010

Why?

- Find out what's available
- Get contacts for each site
- Find skill-sets for each site: who can do what
- Prime the year-1 registry

Questions

- Science and technical contacts
- Data-sets
- Science codes
- Technical resources - servers etc
- Skills (from specific list in questionnaire)

Responses

See wiki: DeploymentResourceCensus

Science resources by site

Site	Data sets	Codes
Bordeaux	KIDA	
Dijon	Methane lines	XTDS, SPVIEW
Uppsala/Vienna/INSAN	VALD	VALD extraction tools
LPMAA/VO-Paris/LUTH	BASECOL	MOLSCAT, PDR
Rheims	S&MPO	MILTFILT, S&MPO sim.
Grenoble	GhoSTT	
Tomsk	CDSD, S&MPO	spectral functions
OU	eMOL	
OAC	PAH+C. clusters, spectra of frozen	
QUB	UMIST astrochemistry	Kinetic models of molecular clouds
Koln	CDMS	
OPM	Stark-B	Stark-C
Belgrade	Stark-B	
IVIC	TOPbase, TIPbase, XstarDB	OPserver, XStar, Autostructure
Cambridge/MSSL/UCL	CHIANTI	CHIANTI tools

Data sets

Set	Web i/f?*	FTP i/f?*	Size	Mirrored?	RDBMS?**
KIDA	N	N	20MB	N	Y
Dijon methane lines	Y	N	3GB → 10GB	N	N
VALD	Y	N	3GB	Y	N
BASECOL	Y	N	2GB	N	Y
S&MPO	Y	N	2GB → 10GB	N	Y
GhoSTT	N	N	10GB	N	Y
CDSD	N	Y	20GB	N	Part?
eMOL	Y	N	2GB	N	N
UCL line-lists	N	N	15GB	N	N
OAC PAH	N	N	50MB	N	N
OAC frozen mols.	N	N	~GB	N	N
UDfA	Y	N	2MB	N	N
CDMS	Y	N	?	N	N
STARK-B	Y	N	?	N	?
TOPBase	Y	N	?	N	Y
TIPBase	Y	N	?	N	Y
XStarDB	Y	N	?	Y	Y

* indicates interface listed in census response
** indicates current storage

Codes

Code	In use?	Service/Local	Tied to data	Griddable?	LAMT rec.***
XTDS, SPVIEW	Y	Local at present	?	?	
VALD extraction tools	Y	Service	Y	?	
MOLSCAT	Y	Local at present	N	Later	X
PDR	Y	Service	?	Later	X
MILTIFIT	Y	Local?	N	?	
S&MPO simulations	Y	Local?	Y?	?	
Tomsk spectral functions	N	Service	N	?	
QUB kinetic models of mol.	Y	Local	?	?	
Stark-C	N	?	Y	?	
OPServer	Y	Service	?	?	
XStar	Y	Local	Y*	?	X
Autostructure	Y	Local	Y**	?	X

* DB currently included with s/w package
** pre-formatted atomic data provided via web-page
*** Recommended for VAMDC attention in L. Mollina's survey

Nature of codes

- Majority are applications in other domains of science that *consume* A&M data
- Those that *produce* A&M data are typically query tools for specific data-sets
- ⇒ not as fundamental to VAMDC as once thought
- ⇒ rethink approach for cycle 2 and later

Skills

- Running servers: 12/16
- Web servers: 10/16
- RDBMS: 9/16
- Grid: 8/16
- Software development: 11/16
- Java development: 6/16
- XML: 5/16

"Unknown" and "little" responses counted as "no"
Several sites intend to acquire skills during the project