

# iua CONNECTIONS

## ● MISSED THE EXPRESS TRAIN TO THE FALL 1998 WORKSHOP? IUA TO ROCK AND ROLLFORWARD IN 1999

More than 150 attendees caught the express train to the IUA Fall 1998 Workshop, which took place November 8-10 in Dedham, Massachusetts.

The CA-IDMS Database and Applications User Association

<http://www.iuassn.com>

Winter 1999, Number 44

### INSIDE THIS ISSUE

- Missed the IUA Fall 1998 Workshop?* ①
- Message from the National Chair* ②
- Regional User Group Update* ②
- Interested in Joining a RUG?* ③
- Mark Your Calendars for CA-World* ⑤
- New Maintenance Tape Available for  
CA-IDMS Release 12.01* ⑤
- European IUA (EIUA) Update* ⑤
- Board Member Profile* ⑤
- Technical Enhancement Request  
Ballot Results* ⑥
- How IUA Uses Technical Enhancement  
Request Ballot Results* ⑥
- Rock & RollForward with IUA* ⑨
- IDMS-L Allows Users to Share Knowledge  
and Find Solutions* ⑩
- Computer Associates Update* ⑫
- Storage Protection in CA-IDMS* ⑫
- Archive of IDMS-L* ⑬
- Helpful Hint* ⑮

Attendees were "trained" in all facets of CA-IDMS application development, database administration, and system administration. The intro to CA-CULPRIT, performance/tuning, and meet the CA developer sessions proved extremely popular.

Missed the train to the workshop? Don't worry. Following an overwhelmingly successful workshop in Dedham, IUA is pleased to announce its Spring 1999 Workshop.

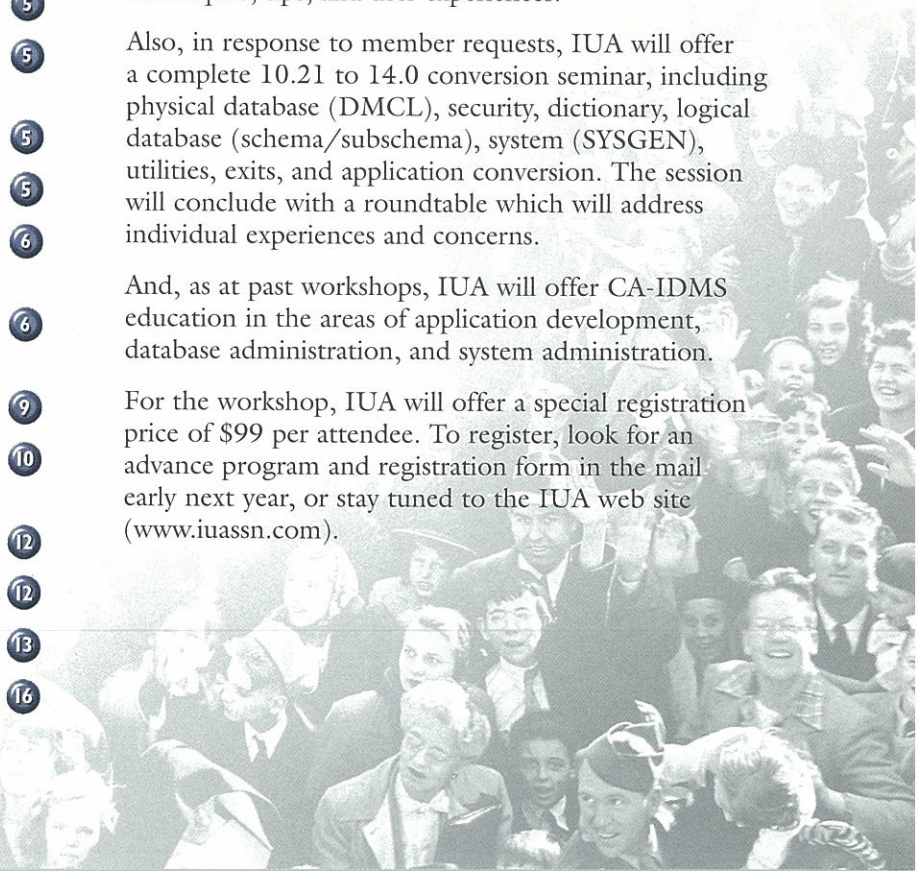
The workshop will take place March 28-30, 1999, at the Embassy Suites Hotel in Cleveland, Ohio – home of the Rock and Roll Hall of Fame.

New at the Spring 1999 Workshop, IUA will offer sessions in all phases of Y2K remediation: tools, techniques, tips, and user experiences.

Also, in response to member requests, IUA will offer a complete 10.21 to 14.0 conversion seminar, including physical database (DMCL), security, dictionary, logical database (schema/subschema), system (SYSGEN), utilities, exits, and application conversion. The session will conclude with a roundtable which will address individual experiences and concerns.

And, as at past workshops, IUA will offer CA-IDMS education in the areas of application development, database administration, and system administration.

For the workshop, IUA will offer a special registration price of \$99 per attendee. To register, look for an advance program and registration form in the mail early next year, or stay tuned to the IUA web site ([www.iuassn.com](http://www.iuassn.com)).







## MESSAGE FROM THE NATIONAL CHAIR

*By Jim Rice*

The weather for many of us this time of year is foreboding. Snow is on the ground, the wind is whistling through leafless trees. We shudder and pull our coats just a bit tighter. Winter is a time to get through until spring, when the world comes alive and renews itself.

Attending the IUA Fall 1998 Workshop in Dedham, Massachusetts, I couldn't help but think that we in the CA-IDMS community are much like the weather. For years we've been told that CA-IDMS is antiquated technology, a dead database. How many of you have heard, "We are moving from IDMS to a client/server environment." Like dead leaves on a tree, CA-IDMS sites, applications, and colleagues have been dropping all around us. Those of us still supporting CA-IDMS have often felt like we were walking in strong winter wind, pulling our coats tighter, just trying to survive.

Yet after a long, cold winter comes a season of renewal. Buds become leaves. Flowers bloom. The birds return.

In Dedham, I noticed more new faces at a CA-IDMS gathering than I had seen in years. CA-IDMS is not going away. It is actually receiving a renewal in interest. I talked to several attendees of our "new DBA" thread and heard the same story over and over. "Our company is staying with CA-IDMS and I am going to be supporting it. I need to learn what it's all about."

To help such attendees, several application sessions at the workshop were targeted to teaching basic concepts to the inexperienced developer. Other presentations showed how CA-IDMS is being used in the new "GUI" world. Both types of presentations were well received.

To assist our members in this season of renewal for CA-IDMS, IUA is planning to increase educational opportunities. In March, we'll hold our spring workshop in Cleveland, Ohio. The format will be similar to the Orlando and Dedham workshops. (See page 1 for details.) IUA will also offer one-day mini-workshops in several cities around the country. These mini-workshops are designed to nourish those whose schedule doesn't permit extended travel.

Every spring I feel a sense of excitement with the renewal of nature. This winter, I look forward to that same excitement with the renewal of CA-IDMS. Please stay tuned to subsequent issues of *IUA Connections* and the IUA web site ([www.iuassn.com](http://www.iuassn.com)) for more information.

## REGIONAL USER GROUP UPDATE

### CA Has An Offer You Can't Refuse!

If your regional user group (RUG) hasn't met in awhile (and even if it has), here's an extra incentive to have that meeting before CA-World 1999, which will take place July 18-23 in New Orleans, Louisiana. CA is offering \$100 discount coupons for CA-World 1999 registration to user group members. **All you need to do to get the certificates is to have a user group meeting.** To get the coupons, user group presidents should contact Kathy Garrison of Computer Associates (CA) at 516/342-3599 or [garcao2@mail.cai.com](mailto:garcao2@mail.cai.com). Coupons will be distributed by user group presidents to those members attending their regional user group meeting. When the user registers for CA-World, he or she must either provide the coupon or the CA-assigned number on the coupon.

### And The Winner Is...

Thank you to all who responded to IUA's RUG survey.

The winner of the Palm Pilot is Richard Rich of the State of California.

Preliminary tabulations indicate that many of you are interested in a traveling education forum sponsored by IUA. When asked how the IUA could assist you in two important ways, the responses you gave included the following: provide IDMS-related education; provide a forum for the exchange of information regarding IDMS issues and future direction; provide information about users who are interested in re-establishing a RUG in their area; and help RUGs find speakers for their meetings.

In addition, many of you who are not currently involved in a RUG expressed interest in participating in one. Where possible, IUA will put respondents within the same geographic area in contact with each other, or put you in contact with the president of the RUG closest to your location.

If you have not completed the survey, you are still welcome to turn it in by mailing it to IUA Headquarters, 401 North Michigan Avenue, Chicago, IL 60611-4267, or faxing it to 312/321-6636.



### **Central Pennsylvania CA-IDMS Users Group**

The Central Pennsylvania CA-IDMS Users Group (CPCUG) met on September 23 in Harrisburg, Pennsylvania.

Staff from Computer Associates (CA) discussed data warehousing, IDMS on the web, SQL table procedures, and CA-Verify. Baltimore, Maryland-based NuBase Systems described NuBase Workbench, which emulates CA-IDMS on the PC.

For more information about CPCUG, please contact Sharon Clark at 717/787-7194 or 00techmgmt@psupen.psu.edu.

### **CA-IDMS Midwest Users Group**

The CA-IDMS Midwest Users Group (CMUG) met on October 21 at the Computer Associates offices in Lisle, Illinois.

Bill Brasch from DBASoft gave a presentation on his company's tools for Clean Room Management and the Year 2000. Jim Moore of Concentrated Logic Corporation provided an extensive look at index build scenarios. Phil Loethen of HSL Consulting discussed the use of HSL's product HSLDATE in helping with Year 2000 testing. An open user discussion completed the educational agenda.

CMUG also elected new officers. Congratulations to Anita Koziol (president), Kirk Miller (vice-president), and Regina Schurman (secretary/treasurer).

Also, thank you to Jim Moore for his dedicated efforts as CMUG's president over the last two years!

For more information about CMUG, please contact Anita Koziol at 312/441-7849 or akoziol@csc.com.

### **Ohio Valley Users Group**

The Ohio Valley Users Group (OVUG) met October 5-6 at the Computer Associates offices in Indianapolis, Indiana.

Attendees discussed IDMS release 14.0 installation issues and the IDMS web interface. Randy Brown and Paul Dorrett of Nubase Systems discussed the Data Flow Diagram and Workbench products. Phil Loethen from HSL explained the use of HSL's Date Ager product in Year 2000 testing. And, Bob Dobbs of Tiburon Technologies presented Tiburon's new product to monitor IDMS through the web.

For more information about OVUG, please contact Dan Hall at 513/583-3525 or dan.hall@corporate.ge.com.

### **Dallas CA-IDMS User Forum**

The Dallas CA-IDMS User Forum (DCUF) will hold its next meeting in January. For more information about this meeting and DCUF in general, please contact Chris Hoelscher at 972/561-6406 or visit DCUF's web site at [www.causergroups.com/-DCUF](http://www.causergroups.com/-DCUF).

### **RUG Contact Updates**

The following are RUG contact updates:

#### **Ottawa IDMS User Group**

Frank Schilder  
613/941-2557  
[va3fjs@rac.ca](mailto:va3fjs@rac.ca)

#### **Minnesota Users Group**

Bill Gentry  
Allina Health Systems  
612/775-1190

#### **CA-IDMS Midwest User Group**

Anita Koziol  
312/441-7849  
[akoziol@csc.com](mailto:akoziol@csc.com)

#### **Quebec User Group**

Laura Rochon  
450/441-0749  
[laura.rochon@cloxt.com](mailto:laura.rochon@cloxt.com)

## **● INTERESTED IN JOINING A RUG?**

Individuals in the following areas have expressed interest in starting or restarting a RUG. If you live in any of these areas, and are interested in becoming part of a user group, please contact the person indicated.

**Los Angeles Area:** Arnold Sobol  
(310/476-5772 or [sobola@acm.org](mailto:sobola@acm.org))  
or Roux Laflamme (714/719-9257  
or [roux.laflamme@informission.ca](mailto:roux.laflamme@informission.ca)).

#### **Great Lakes Area:**

Jim Edwards (248/624-5200 ext. 1667  
or [jedwards@williams-int.com](mailto:jedwards@williams-int.com)).

#### **Delaware Valley Area:**

Mike Bruno (609/655-6634).

#### **Washington D.C./Virginia Areas:**

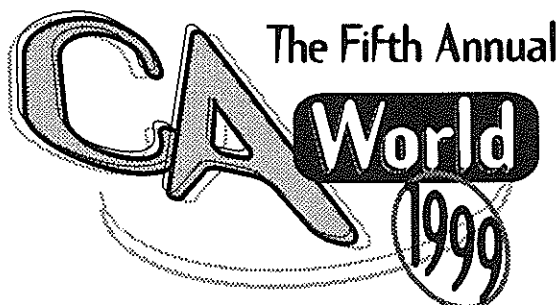
Jeff Golden (301/384-3607).

For more information about the RUG in your area, please contact IUA Headquarters at 312/321-6827 or Sue Weiland at 312/441-6821. You can also visit IUA's web site at [www.iuassn.com](http://www.iuassn.com) for a full list of RUG contacts.

# Computer Associates Presents A Conference And Exposition Featuring The World's Leading Business Software Products And Experts.

Over 300 Technology Vendors

## July 18-23, 1999 New Orleans, LA



The Fifth Annual

**World**

**1999**

### 6 Days, 144 Hours, 8,640 Minutes

CA-World 1999 is six technology-filled, information-packed days. Listen, learn, participate, and share all the latest in technological breakthroughs and industry trends.

### Over 100 FREE Industry Classes

Save thousands of dollars by attending FREE Pre-Conference industry education classes.

### 1 Huge World Resource Center

Explore the 300,000 square-feet of exhibits from over 300 of the industry's hottest technology providers.

### 1 World-Class Event

Be a part of one of the fastest-growing high-tech user conferences in the world!

### 3,000 Technical Sessions

Attend any of the many technical sessions or workshops that feature some of the latest CA solutions available.

### Attention All User Group Members

- As a User Group Member, you receive a **\$200 discount** off the full price of the CA-World 1999 Registration Fee.
- See exciting and inspiring keynote addresses by some of the most prominent leaders in the industry today.
- Attend FREE Pre-Conference Education Sessions.
- Meet one-on-one in unique forums.

Visit our Home Page:

[www.caworld.com](http://www.caworld.com) or call the

CA-World Hot Line at:

1-877-CAWORLD (1-877-229-6753)

or 1-516-342-6600.



### 18 Industry Leaders

Charles B. Wang, Chairman and Chief Executive Officer of Computer Associates, leads a list of world renowned leaders.

**COMPUTER  
ASSOCIATES**  
Software superior by design.



## ● MARK YOUR CALENDARS FOR CA-WORLD!

Mark your calendars now for CA-World 1999, which will take place in New Orleans, Louisiana, July 18-23, 1999.

CA is committed to giving all attendees of CA-World 1999 more education, networking, technology, and fun than any other vendor-sponsored event.

Computer Associates (CA) is proud to hold its conference in "The Big Easy" for the fifth year in a row. The intimate setting of the Crescent City, as well as the hospitality extended to CA and its clients by the City of New Orleans, has been unparalleled.

Offering more than 3,000 technical sessions and labs, plus free pre-conference education series, CA-World 1999 is more expansive than any other vendor sponsored conference in the IT industry. This year's endeavor promises to be more in-depth and informative than ever.

With the participation of top educational companies, along with hundreds of CA's technology and business partners, the resources for learning at CA-World 1999 are boundless. Whether it is the insight of a one-on-one session with a CA technical evangelist, the 300,000 square feet of solutions at the World Resource Center, or one of the visionary keynote addresses from prolific world and business leaders, CA-World 1999 has something for anyone who is serious about the advancement of technology and its ever growing impact on all facets of our society.

For more information about CA-World 1999, visit the CA web site at [www.cai.com](http://www.cai.com). Preliminary agendas offering details on classes and sessions will also soon be available.

If you have questions, please contact the CA-World 1999 hotline at 877/CAWORLD, 877/229-6753, or 516/342-6600.

## ● NEW MAINTENANCE TAPE AVAILABLE FOR CA-IDMS RELEASE 12.01

The maintenance tape for CA-IDMS release 12.01 (genlevel 9809) is now available from Computer Associates (CA). This tape includes all CA-IDMS-published APARS though LO39722. See PIB LI40571 for more information. There will be no corresponding product base tape at this genlevel.

## ● EUROPEAN IUA (EIUA) UPDATE: UNDERSTANDING CA/USER GROUP RELATIONS IN EUROPE

Computer Associates (CA) is organized differently in Europe than it is in the U.S.

Instead of having one European organization, CA is comprised of many local organizations. Each country has its own local CA with its own managing director and a great deal of autonomy.

Each user group comprising the European IUA has to deal with this local CA first and foremost. For the most part, this has worked well over the years. Generally, each country has offered equivalent benefits to its user group.

Of course, there are exceptions. But, when differences have arisen, the biannual meetings of user group delegates have helped highlight them. These meetings have allowed user groups which have not obtained benefits from their local CA to approach their local CA liaison armed with information about what other user groups receive from CA.

CA has made attempts to establish a pan-European subsidiary, but thus far such attempts have been short-lived or not reduced the stature of the local CAs. The last attempt took place about two years ago, when Vincenzo Dragone was named European director. However, for reasons unknown, this was overturned in the April CA Reorganization, which divided Europe into northern and southern sections.

Regardless of the latest game of musical chairs, however, EIUA continues to give continuity to the relationship of European users with CA. It allows users to share common concerns with CA and increases the influence that can be exerted over CA.

## ● BOARD MEMBER PROFILE

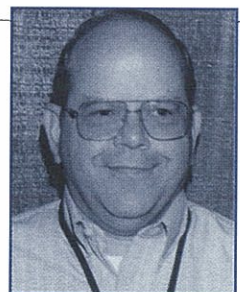
**Name:** Bill Bryson

**Profession:** IS Training Project Leader

**Company:** Hexcel Corporation

**Biography:** Bryson assisted with Hexcel's implementation of MRP using Cullinet and Computer Associates (CA) commercial manufacturing software beginning in 1984. He also handled subsequent upgrades, and provided support and training for all of the manufacturing modules utilized at Hexcel. Prior to working at Hexcel, Bryson was a plant production control supervisor, shipping and receiving staff member, production planner, process engineer, buyer, and more.

**IUA Experience:** Bill Bryson is the chairman of IUA's Applications Advisory Committee, a member of the executive committee, and has been involved with IUA for many years.





## ● TECHNICAL ENHANCEMENT REQUEST BALLOT RESULTS AVAILABLE

Rank	Average Response	Enhancement Description
1	3.2857	Enhance DCMT program to allow sorting the results by allowing a "by" subparameter
2	3.1571	Enhance Unload/Reload Utility to reposition VIA member records when the member records are being unloaded/reloaded but the owner records are not
3	3.1286	Enhance IDMS precompilers to clarify the exact cause of DML004 messages
4	3.1143	Enhance OCF/BCF processing to accept standard 3-character abbreviations for all commands
5	3.0857	Enhance Centralized Security to provide problem information accompanying S0xx messages
6	2.9286	Enhance Text Editors to accept both SIGNON and CONNECT syntax in both OCF/BCF and non-OCF/BCF environments
7	2.7000	Enhance Security to allow discreet OCF/BCF security restrictions, similar to RHDCCTAB
8	2.6857	Enhance ADSA to show all functions for which a given response is marked as valid
9	2.6752	Enhance dictionary security to enforce "set user" restrictions across all IDMS tools such as OLQ & DMLO
10	2.6143	Enhance Prefetch processing by allowing runtime buffer-level Prefetch selection by SYSIDMS parameter
11	2.600	Enhance dynamic dataset allocation processing to allow a runtime option to not allow dynamic dataset allocation
12	2.5286	Enhance IDMS utilities to make CLOD, QUED, and SDEL tasks subparameters to the existing CLEANUP command
13	2.5143	Enhance Centralized Security to restrict mode access to an area; similar to DBAREAD/DBAWRITE applied to non-utilities
14	2.5014	Enhance dynamic dataset allocation/deallocation processing to allow journal datasets to be deallocated and allocated in the same manner as database datasets
15	2.4571	Enhance DMCL syntax to allow a dataset name to be assigned to a segment file at the DMCL level as an override
16	2.4286	Enhance DMCL processing to allow a single DMCL to perform both CV mode and Local mode journalling
17	1.9429	Enhance the SQL facility to allow access to ALL indexes for retrieval processing
18	1.9143	Enhance IDMS precompilers to precompile "C" language programs
19	1.9000	Enhance the IDMS help text facility to display help text screens in either vertical or horizontal screen formats
20	1.7571	Enhance SQL processing to optionally allow when formatting an SQL dataspace to also erase the corresponding information about the tablespace contained in the SQL catalog
21	1.7429	Enhance Dictionary Query Facility (DQF) to include an on-line help facility
22	1.6286	Enhance ADS/O to include a built-in function that processes exponential calculations
23	1.6286	Enhance SQL processing to allow a "delete cascade" command equivalent to a non-SQL "erase all members" command
24	1.4714	Enhance the SQL facility to allow embedded SQL in Assembler programs

## ● HOW IUA USES TECHNICAL ENHANCEMENT REQUEST BALLOT RESULTS

You've seen the results of the recently completed IUA Technical Enhancement Request Ballot, which IUA has forwarded to Computer Associates (CA). But did you know that CA directs its future development on the basis of user-submitted enhancement requests? One of the major enhancements to CA-IDMS found in the soon-to-be GA release 14.1 (the ability for a run unit to bind to areas in multiple page groups) was developed as a direct result of client requests.

With that in mind, please take a minute or two to consider what CA-IDMS enhancements would make the product more valuable to your site. Please forward your enhancement requests to IUA at [iua@sba.com](mailto:iua@sba.com). (A form will soon be available on the IUA web site, [www.iuassn.com](http://www.iuassn.com).)

# The Framework Is FREE. The Benefits Are Invaluable.

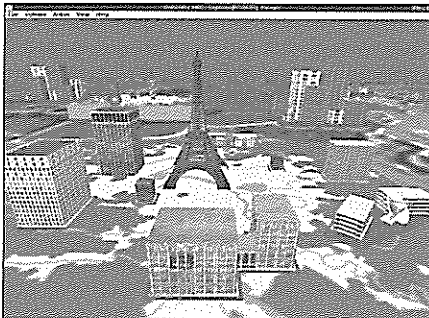
Time to market.

It's the biggest challenge every developer faces. But now there's something that can help you conquer it. An amazing new framework that will enable you to develop your applications much, much faster than before.

## The Unicenter TNG Framework Can Save You Years Of Development Time.

The Unicenter® TNG™ Framework™ provides an instant foundation for virtually any kind of application you need to develop.

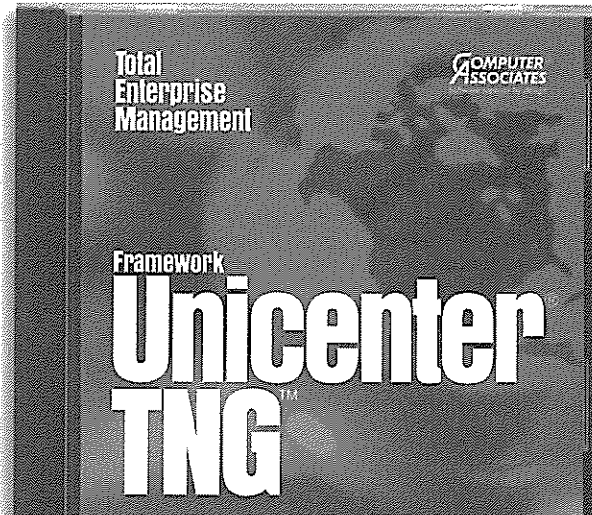
It provides all of the common services your applications will ever need. Basics like



Unicenter® TNG™ uses virtual reality to create a 3-D environment representing objects in the real world.

calendar management, object repository, and virus detection are just a few of the dozens of services that are included for free.

Sure, you could write your own, but do you have countless months to do it? And would it be as robust as everything Unicenter TNG can give you today? Not to mention, it would take even the most gifted developer a very long time to develop some of the very uncom-



mon services the TNG Framework offers. Like a revolutionary 3-D Real World Interface™ that incorporates virtual reality. And innovative Business Process Views™ that let users look at their systems and processes any way they like.

Why spend the next five years building your applications from scratch, when you can use the Framework to get an edge on your competition today?

## Unicenter TNG Framework Provides All Your Applications With Cross-Platform Support.

With the Unicenter TNG Software Development Kit and FREE Unicenter TNG training programs, you'll be able to develop for the broadest variety of UNIX and NT platforms. In fact, Unicenter TNG is the most open, interoperable, and scalable management solution available. Today, over a dozen companies are shipping the Unicenter TNG Framework with their systems. Companies like HP, DIGITAL, NCR, Tandem, SGI, Data

General, SCO, and Fujitsu, to name a few. They ship it, so you don't have to.

## Unicenter TNG Is Widely Recognized As The Industry Standard For Network And Systems Management.

Unicenter TNG is the only management solution that has been supported by virtually every major hardware and software company, including Microsoft, Sun, SAP, Intel, HP, DIGITAL, Tandem, NCR, SGI, and Data General. *Information Week* summed it up best when it recently

said "Unicenter TNG is a generation ahead of the competition."

	# Of Developers	Develop Time (mos.)	Person Mos.	With TNG Framework
2-D and 3-D User Interface	5	8	40	Available Now
Object Repository	8	12	96	Available Now
Auto Discovery	6	9	54	Available Now
Calendar Management	5	8	40	Available Now
Virus Detection	3	7	21	Available Now
Reporting	4	5	20	Available Now
Business Process Views	6	7	42	Available Now
Event Management	15	18	270	Available Now
Delivery Timeframe			583	SHIP Today

Why waste time? Unicenter TNG Framework can save you countless months.

**Call 1-888-UNICENTER Today For Your FREE Unicenter TNG Framework, Or Visit [www.theframework.com](http://www.theframework.com).**

Call today and give yourself a FREE head start on every single application you develop.

It just might be the competitive edge you need. To finish first, every time.

**COMPUTER ASSOCIATES**  
Software superior by design.

# Unicenter® TNG™ Framework™

©1998 Computer Associates International, Inc., Ispania, NY 11788-7000. All product names referenced herein are trademarks of their respective companies.



# Objects *r* Here.

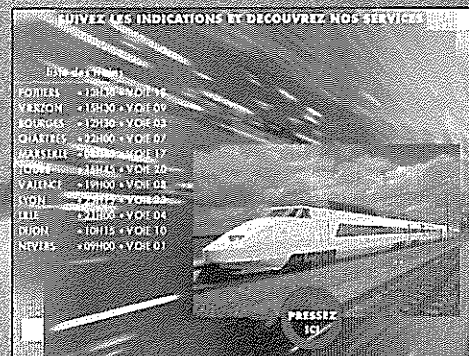
Everyone agrees: the future belongs to objects.

But today's application developers have limited choices when it comes to harnessing the power of object technology without sacrificing performance, flexibility, or the freedom to use what you like.

Jasmine™ gives you the power you need with the freedom you want.

It's the first complete and pure object solution that has it all:

- The industry's easiest integrated development environment lets you drag and drop, and use all your favorite tools: native Java support, ActiveX controls, built-in VB integration, and C++.
- Jasmine is a powerful, true object database. It supports abstract classes, encapsulation, classification, inheritance (both single and multiple), unique object identity, methods (including instance-level, class-level, and collection-level), polymorphism, and aggregation.
- An industrial-strength architecture featuring SMP support, backup and restore, security, and transaction management.
- Built-in multimedia and Internet support: not only can you build and package the next generation of multimedia business applications, you can run them everywhere: Internet, intranet, extranet, client/server—all without recompiling.



Jasmine is real. A proven, complete object-oriented database and development environment. Unlike hybrid or partial object solutions, Jasmine actually works.

So you can shorten your time to market and gain a distinct competitive advantage.

Try it out—pick up the phone right now. Because Jasmine is ready today.

Are you?

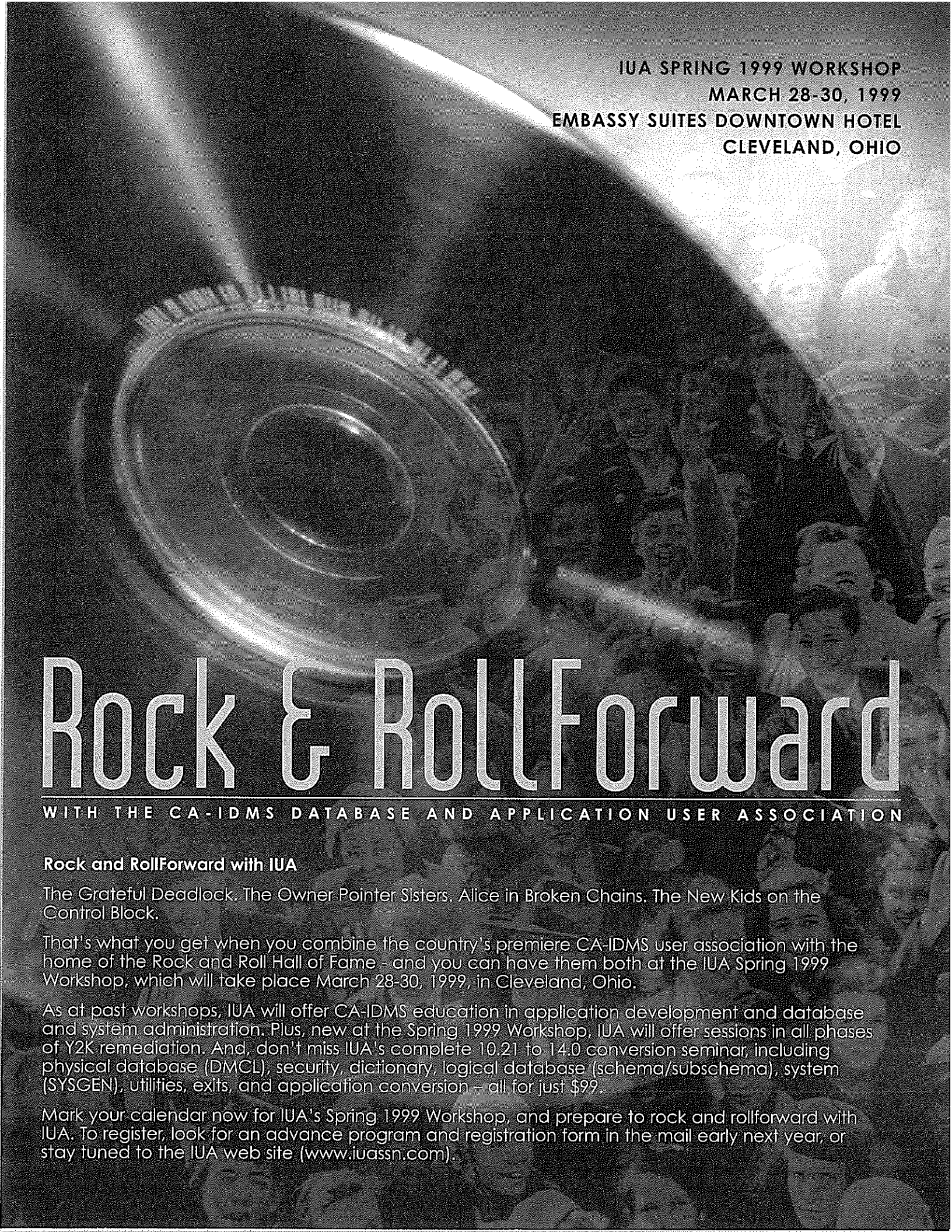
**Call 1-888-7 JASMINE for your FREE Developer Edition CD  
or visit [www.cai.com](http://www.cai.com)**

**COMPUTER<sup>®</sup>  
ASSOCIATES**  
Software superior by design.

©1998 Computer Associates International, Inc., Ispahana, NY 11788-7000.  
All other product names referenced herein are trademarks of their respective companies.

**Introducing  
Jasmine<sup>™</sup>  
Objects @ Work<sup>™</sup>**





IUA SPRING 1999 WORKSHOP  
MARCH 28-30, 1999  
EMBASSY SUITES DOWNTOWN HOTEL  
CLEVELAND, OHIO

# Rock & RollForward

WITH THE CA-IDMS DATABASE AND APPLICATION USER ASSOCIATION

## Rock and RollForward with IUA

The Grateful Deadlock. The Owner Pointer Sisters. Alice in Broken Chains. The New Kids on the Control Block.

That's what you get when you combine the country's premiere CA-IDMS user association with the home of the Rock and Roll Hall of Fame - and you can have them both at the IUA Spring 1999 Workshop, which will take place March 28-30, 1999, in Cleveland, Ohio.

As at past workshops, IUA will offer CA-IDMS education in application development and database and system administration. Plus, new at the Spring 1999 Workshop, IUA will offer sessions in all phases of Y2K remediation. And, don't miss IUA's complete 10.21 to 14.0 conversion seminar, including physical database (DMCL), security, dictionary, logical database (schema/subschema), system (SYSGEN), utilities, exits, and application conversion - all for just \$99.

Mark your calendar now for IUA's Spring 1999 Workshop, and prepare to rock and rollforward with IUA. To register, look for an advance program and registration form in the mail early next year, or stay tuned to the IUA web site ([www.iuassn.com](http://www.iuassn.com)).



## ● IDMS-L ALLOWS USERS TO SHARE KNOWLEDGE AND FIND SOLUTIONS

IDMS-L is an electronic discussion forum where IT professionals share technical knowledge about CA-IDMS. Discussion focuses on technical and administrative issues associated with operating a CA-IDMS systems software environment. The list is not affiliated with Computer Associates (CA) or IUA.

### IDMS-L History

IDMS-L is now in its ninth year of serving as a technical forum for constructive commentary among members of the CA-IDMS community. James Bradshaw started the list in 1989 as a means of sharing information among members of the Cullinet user community. The University of Georgia has hosted the listserv since then.

### IDMS-L Operation

IDMS-L is one of the thousands of discussion lists that is managed by a software product called listserv. A list subscriber sends a message to a server, which distributes the message to all of the list's subscribers. (See [www.lsoft.com](http://www.lsoft.com) for more information about listservs.)

The list also exists in the form of a Usenet news group, [bit.listserv.idms-l](mailto:bit.listserv.idms-l). A gateway provides one-way distribution of messages. While IDMS-L traffic flows from the list to [bit.listserv.idms-l](mailto:bit.listserv.idms-l), traffic does not flow from the news group to the list.

Confusion sometimes exists as to whether one is monitoring list traffic via IDMS-L or through the news group feed. But, one can easily distinguish between the two forums. If you do not receive e-mail messages directly from IDMS-L, then you are monitoring the list via some form of news group functionality (such as a news reader program, [www.dejanews.com](http://www.dejanews.com), etc.).

There are several issues that apply to those who monitor IDMS-L via the news group feed.

First, items posted to the news group are not distributed to the list. This means that your messages will have a limited audience, since they will only be visible to those that read the news group feed. Posts to the news group are strongly discouraged.

Second, if you submit a message to the news group, you will most likely receive a message that you are not authorized to send mail to the IDMS-L list from your account. (Subscribers to IDMS-L may also receive this

message. This usually indicates that your current email address differs from the address that was registered when you subscribed to the list.)

Traffic that is inappropriate for IDMS-L (such as Usenet "spam" and various position postings) appears in the news group. These posts have not been distributed by IDMS-L.

Note also that if traffic to a subscriber is non-deliverable, the following procedures apply: 1) mail is generally allowed to "bounce" up to a maximum of two days; 2) spurious non-deliverable traffic is cause for adjusting the subscriber's entry to digest; 3) subscribers with "full mailbox" or "maximum hop" messages are subject to immediate removal from the list; and 4) in some situations, the listserv processor automatically deletes subscribers.

### Subscribing to IDMS-L

Subscribers submit their request to the LISTSERV processor ([listserv@listserv.uga.edu](mailto:listserv@listserv.uga.edu)) using the command below.

SUB IDMS-L <your name>

The subscription command should be the only line in the body of your message. Any content in the subject line is ignored.

The listserv sends a verification message after receiving the subscription request. The subscriber then responds with an OK command to the verification message.

### Sending a Message to IDMS-L

Send your IDMS-L messages to [idms-l@listserv.uga.edu](mailto:idms-l@listserv.uga.edu). The list's distribution options are set to reject traffic from non-subscribers. (This configuration option, as well as the daily traffic limit of 15 messages, was implemented to assist in the prevention of various types of mailer loops.) This may result in some false rejections of traffic from a subscriber whose network address has changed. Such situations will be handled on a case-by-case basis.

Note: When IDMS-L is used in the address, the text of your message will be sent to all IDMS-L subscribers. The message is then in the "public domain" and the potential for redistribution/retransmission is almost limitless. Exercise caution and be certain that you are sending your message to the appropriate address.

*(continued on page 12)*



# All The Backup You Need To Determine The Best Backup.

If only all of your decisions were this easy.

A quick glance at the chart shows you why ARCserve® is the #1 client/server storage management solution for comprehensive backup/restore, disaster recovery, and advanced data management worldwide. And only ARCserve offers true, end-to-end data protection across your entire enterprise, from desktop to mainframe.

ARCserve has set the vision for the industry by delivering technology that is years ahead of the competition. That's why it has won virtually every industry award. ARCserve is so advanced—it's simple. Our new technology offers a range of automated features and functions that make it easy to implement and manage. It's the one solution that's perfect for everyone: from small business users to the most experienced IT professional.

But that doesn't mean we're sitting on our laurels. We've spent millions on R&D to extend ARCserve 6.5 for Windows NT far beyond a backup solution, making it a total storage management platform, which includes automated disaster recovery,

Features		CA's ARCserve 6.5 for Windows NT	Seagate Backup Exec 7.0 for Windows NT
Intelligent Client And Server Data Compression	✓		
End-To-End Data Encryption	✓		
Remote Disaster Recovery	✓		
Single Point Installation Of Client Agents And Options Across The Enterprise	✓		
Centralized Backup Database	✓		
Grandfather-Father-Son Media Rotation	✓		✓
High Performance Software Tape RAID Backup/Recovery	✓		
"Snapshot" On-Line Image Backup	✓		
On-Line Backup Agents For Lotus Notes In Addition To Microsoft Exchange	✓		
Leverages Microsoft's Common Object Model (COM) Architecture	✓		✓
Key Level Registry Backup And Restore	✓		
Built-In Virus Scanning	✓		
Built-In Data Migration (HSM)	✓		
Built-In Unicenter TNG™ Framework™	✓		

Note: Product comparison as of 10/1/97

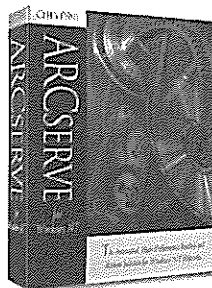
replication, data migration (HSM), as well as support for a wide variety of media, devices, applications, and environments.

ARCserve offers a host of options that custom fit to your individual needs. ARCserve application agents enable "hot" on-line backup of your live databases, messaging systems, and Intranet/Internet servers eliminating the need to take systems offline for routine backups.

No matter what the future holds,

your investment in ARCserve is guaranteed by the industry leader in data protection, Computer Associates.

Now what could be better backup than that?



Download  
Your FREE Copy  
Of ARCserve 6.5  
For Windows NT

For more information, call  
**1-800-CHEY-INC (1-800-243-9462)**  
or visit us at [www.cai.com/cheyenne](http://www.cai.com/cheyenne).



**COMPUTER ASSOCIATES®**  
Software superior by design.

**ARCserve®**

©1997 Computer Associates International, Inc., Ithaca, NY 14850-7000. All other product names referenced herein are trademarks of their respective companies.



### Server Commands

Server commands, which allow you to change your subscription options for IDMS-L and request information from the server, should be sent to [listserv@listserv.uga.edu](mailto:listserv@listserv.uga.edu). These commands are as follows:

**INFO.** Receive a general overview of listserv documentation.

**SET.** Change subscription options. Send the command SET IDMS-L DIGEST to have the server deliver one message per day. A "daily digest" will contain all of the individual messages processed by the list on the prior day. See [www.lsoft.com/manuals/userindex.html](http://www.lsoft.com/manuals/userindex.html) for additional options.

**INDEX.** Retrieve a listing of all listserv files. Send the command INDEX IDMS-L to receive a list of the monthly log files that are available.

**GET.** Retrieve a listserv file. Send the command GET IDMS-L LOGyymm to retrieve a particular IDMS-L log file.

**SUB.** Subscribe to the list.

**UNSUB.** Remove subscription. Send the command UNSUB IDMS-L and your subscription will be canceled.

### IDMS-L Policies

IDMS-L is not a forum for discussing third party products that compliment CA-IDMS or a medium for position postings.

**Third-Party Products.** IDMS-L policy does not preclude user-initiated, objective, informed, and substantive commentary about "field experiences" with third-party products. IDMS-L participants may submit questions about third party products to the list. Responses to third party product inquiries must be directed to the individual who submitted the inquiry. That individual will be responsible for collecting responses and transmitting a digest of the responses back to the list. The digest should be posted with a subject line that matches that of the original post. The digest provision also applies to discussion of educational services from third party providers.

**Position Postings.** News groups that contain IDMS-related position postings can be identified by going to [www.dejanews.com/home\\_if.shtml](http://www.dejanews.com/home_if.shtml) and using IDMS as a keyword. ●

## COMPUTER ASSOCIATES UPDATE ●

Please note the following product updates from Computer Associates (CA):

- 1) Release 14.1 is beta testing at several sites.
- 2) Visual DBA is beta testing at several sites.
- 3) Unicenter IDMS Agent is beta testing at several sites.
- 4) Server 4.1 is in general availability (GA).
- 5) CA is planning to produce a 14.0 tools maintenance tape to include Year 2000 corrections that require source changes, a 12.01 base product maintenance tape, and a 14.0 base product maintenance tape. CA plans to release all by the end of the year.
- 6) CA is considering periodically producing an easily downloadable web file of all APARs that have been published since the last maintenance tape. Ideally, someone deciding to move to the latest maintenance tape would be able to download all the APARs published since that tape in one file rather than having to download one by one. No target date has been set.

## ● STORAGE PROTECTION IN CA-IDMS: WHAT DOES IT REALLY DO?

Much has been written about the storage and CPU utilization issues related to storage protection at the system and program levels. Little, however, has been written about the intended implications of such storage protection - namely, preventing application program storage overlays.

When storage protection is enabled at the system level (SYSGEN option PROTECT), CA-IDMS ensures that all storage requested by a task and allocated to that task will be satisfied in one of two ways.

First, IDMS will attempt to allocate the requested free storage on 4k page(s) of storage already requested by and assigned to the task.

*(continued on page 13)*



# Archive of IDMS-L

## QUESTIONS AND ANSWERS

*When executing a pagable map, we stop at 48 pages, even though we know there are more pages. Is there any limit on the number of pages you can maintain in a pagable map session?*

See the SYSGEN option PAGING STORAGE on the OLM SYSGEN statement:

DIS OLM

- \*+ ADD OLM
- \*+ DATA FIELD CHARACTER IS X'6D'
- \*+ DELIMIT CHARACTER IS X'1C'
- \*+ FIELD SELECT CHARACTER IS X'6C'
- \*+ FIELD START CHARACTER IS X'1E'
- \*+ TRANSLATE CHARACTER IS C'@'
- \*+ NEW COPY IS YES
- \*+ NUMERIC FIELD ORDER IS STANDARD

\*+ NUMERIC FIELD DECIMAL-POINT IS PERIOD

\*+ PAGE FORWARD PFKEY IS PF8

\*+ PAGE BACKWARD PFKEY IS PF7

\*+ HELP PFKEY IS PF1

\*+ =====>PAGING STORAGE IS 500 <=====

\*+ QUEUE RETENTION IS 5

Your dialog can also test the condition \$MAXIMUM-DETAILS-PUT to determine whether it has used up all of its paging storage. If it has, and you want to continue paging forward, you must start a new paging session.

*I'm trying to change the block sizes of some of our IDD data sets, but I am unsure of a subschema to use. I know that we had a subschema to use in 12.0, but we are now in 14.0. We have no schemas/subschemas in the SYSDIRL. I am at a loss, because I did nothing special at migration time with SYSTEM subschemas.*

*(continued on page 14)*

### (Storage Protection, cont. from page 12)

Second, if adequate free storage cannot be allocated from 4k page(s) already allocated to the task, IDMS will allocate 4k page(s) of unallocated storage exclusively to the requesting task until the storage request is satisfied.

Thus, with storage protection enabled at the system level only, any storage requested and allocated to an application task will never be allocated to another system or application task.

System-level storage protection does not, however, prevent any task from overwriting storage that was not allocated to it. For example, defining a table to contain 1000 four-byte elements, but updating the 2500th element, would update storage three pages past the page allocated, regardless of which task owns the storage. This can result in storage overlay error messages (if the storage bookends are overwritten), abends in other application or system tasks, or unobservable problems.

Storage protection additionally enabled at the program level (SYSGEN program statement option PROTECT) provides additional system intervention. First, however, an explanation of storage keys is in order.

Without program-level storage protection, each program and all pages of storage, when allocated, are tagged with a storage key attribute of the value of the "primary" storage key (as defined in the operating system for CA-IDMS regions).

When storage protection is enabled for a program, the program (as well as all storage requested by and allocated to the program, and all other storage previously allocated to any program within the same task as the storage-protected program), will be tagged with a storage key attribute with a value of the "alternate" storage key, as defined in the system definition (SYSGEN option STORAGE KEY).

IDMS will piggyback on operating system storage management routines (which prevent programs tagged with the alternate storage key value from writing storage on pages tagged with the primary storage key value) to detect any attempt of a storage-protected program to overwrite storage on a page of storage allocated to any other task. This is because only one task is active at a time in a unitask environment. Only the active task, as mentioned above, will have its storage "tagged" with the alternate storage key value.

Once again, however, storage protection invoked at the program level will not prevent a program from overwriting storage allocated by itself or any other program within the program's task.

Thus, although storage protection within CA-IDMS can help detect and isolate storage overlay problems, storage protection can not prevent a program from shooting itself in the foot.



(Archive of IDMS-L, cont. from page 13)

All the subschemas are still available under release 14 in the IDMS load library. Use the following subschemas for the appropriate areas:

IDMSCATZ for DDLCAT, DDLCATX

IDMSCATL for DDLCATLOD

IDMSSECU for DDLSEC

IDMSNWKU for DDLDCMSG, DDLDDL, DDLDCLOD

IDMSNWK7 for DDLDCRUN

You might also consider including the following SYSIDMS parameters in unload/reload steps. Use LOADAREA=OFF,USERCAT=OFF, and MSGDICT=OFF.

*Has anyone migrated 10.211 from ESA to a CMOS OS/390 operating system? I had my DBA provide my systems programming group the modules necessary to bring up and test IDMS in a test environment. When the database is brought up, it crashes with the following error message: IEF450I IDMSTEST STEP1 IDMSTS1 - ABEND=SFFD U0000 REASON=00000. My systems programmer tells me a module is missing.*

Tell your systems programmer that the SVC is the module that is missing (or it is not installed properly). The SFFD abend is referring to the FD as SVC 253. One other note - when my clients began to clone IDMS regions into OS/390 testing regions, it was necessary to insist that our MVS support folks install the SVC the "old" way - not the OS/390 way. I don't know all the details, but we were told that the SVC was "in," but was still getting the Sxxx errors. We finally "hard-linked" the SVC instead of soft-linking it, and all was well.

*We are having a problem with schema-record buffers in ADS/O. When an ADS dialog invokes or transfers to a lower level dialog, the database record currencies are supposed to be passed along with the element values. This doesn't always happen. For example, dialog A invokes dialog B, and both use schema record version 1. The schema records changes (now version 2, but it's the same length and structure). Dialog A is re-compiled, but not dialog B. The change in the schema record does not affect dialog B logic. Now, when dialog A retrieves a schema record, and invokes dialog B, the system initialized the schema work area for that schema record for dialog B. Is there any way (APAR or SYSGEN option) that we can prevent the work-area from being initialized? The schema record does not affect dialog B in any way.*

GS09888 is the APAR that will cause the system to ignore record version differences during transfers

between dialogs (release 12 version). The release 14 version is LI37449 (bit 42).

*We are trying to create a method of restoring our production SQL database backup to test for same size areas. When we do that, however, we get the following message: table xxx definition/db out of sync. I've tried downloading the CATSYS segment, but I still get the same message. Does anyone know of a way to refresh a test database with a production backup without going through a SQL export/import?*

The most accurate time stamps are in the SYSSQL segment, not CATSYS. We have been successful in moving production data to test by using the following procedure: 1) copy prod data files; 2) copy prod catalog that contains SQL definitions (DDLCA, DDLCA, DDLCA); 3) add new DBNAME in test; and 4) if needed, add new LOADLIST for access to access modules in cloned catalog.

*We are upgrading all our CVs to release 14.0, 9711. The one holdup we have is all of our 10.2 and 12.0 CA-Culprit jobs have, as a default, the copy modules (=COPY statements) accessed from CA-Librarian. We are trying to get 14.0 to default its access to Librarian. We could put a PARMLIB=LIBRARIAN3 parameter on the profile, but that would mean changing hundreds of jobs. I vaguely remember having to do something different on the Culprit installation when we did the 10.2 install. Has anyone "been there, done that"?*

The CULMPROF assembly contains a parameter for setting the PARMLIB (which it defaults to STANDARD). There is a CULXPROF member in the PPOPTION library, which allows overrides to CULMPROF when doing an install or SMP USERMOD. In our case, this was done after the initial install of 9711, so a USERMOD was created, modifying the PARMLIB in the CULXPROF member statement to say PARMLIB=LIBRARIAN3. This USERMOD updated LOADLIB members CULL, CULE, CULPRIT, and CULP0. If we had caught this on the installation of 9711, there would have been override statements allowed in GJCPRF in the VARBLIST that apparently would have allowed us to change the default PARMLIB when we did the installation. It should also be noted that GJFK3 in the VARBLIST needs to be set to YES (or INSTALL) in order to allow Culprit to access Librarian (which only allows access, but does not set the default usage). The GJFK3 setting can be done on the initial install, or an add-on install. (The GJCPRF statements apparently only work on an initial install, as they did not work when we did the add-on.)



(Archive of IDMS-L, cont. from page 14)

*In the 14.0 PRINT SPACE FULL utility report, at times, we are getting a record type called null line. Does anyone know what this null line represents?*

The null line entry corresponds to a line index entry (embedded among all the line indices) that is not being used. It tells you how much space is being "wasted" among the line indexes. It's not actually wasted, as it will be used when a record is stored on the page.

*After running for the great bulk of the day, when CV dynamically allocates and opens a file, we get:*

*+IDMS DC205017 V2 T2521 Dynamic Allocation Error; APPL01SG.PROD04F4*

*Reason Code 0450*

*+IDMS DC205017 V2 T2521 Dynamic Allocation Error; APPL01SG.PROD04F4*

*Reason Code 0450*

*I found a reference in the MVS manual (the electronic version provided by QuickRef). It says that the 0450 means you are about to exceed the limit of 1,635 concurrent allocations in a job step. There must be an answer short of collapsing multiple file areas into singles or collapsing multiple areas into single files. How hard is the 1,635 limit? Can it be set at the operating system level (maybe it's in SYS1.PARMLIB somewhere)? Is there anything that can be done short of changing our database file layouts (and the reloads to get them there)?*

The limit is set using the TIOT parameter, and the default is 32K, which allows approximately 1,600 DDs for any given job. This can be set to 64K, which doubles the number of DDs available. Some system programmers will balk at this, as it is a system wide variable and they are uncertain of the impact on all other jobs that may not even use additional DDs. There is a way to override the system default size for the TIOT. You can find it in the MVS JCL Reference book. The parameter is DYNAMNBR, which you specify on the EXEC statement. Your MVS support people would probably be more open to the idea since the TIOT size would be changed only for your CV job. As I understand it, the effect would be the same as doubling the default TIOT capacity.

*Our shop is converting from MVS/XA to the OS/390 operating system. Our IDMS environment is 10.2, production is S10201 tape, and test system is S10211 tape. The system programmer made copies of all of the test system files and moved them to the OS/390 environment for testing. Everything seems to work fine in all IDMS compilers as well as most of the*

*application programs. The problem we have not been able to solve is where an ADS/O dialog links to a DC-COBOL program. At the time the link is done, we get error code T03C. We have not been able to find this error code anywhere and don't even know if it's coming from IDMS/DC or from OS/390. We are using COBOL 2 release 4.0. The COBOL program is compiled with a module called IGZEOPT. Does any one have any ideas as to where we might find this error code or solve this problem?*

The TOC3 error message is related to the IGZEOPT macro. The IGZEOPT is a run time COBOL II module. This macro/module sets the run time options for the COBOL environment. The error message is indicating that a specific option in the IGZEOPT is not set correctly for the IDMS region. CA has a doc up on the IGZEOPT macro and its settings. CA can give you the correct settings. The TOC3 errors message in release 12.0 (9407 tape), and the problem is resolved when the IGZEOPT options are set correctly.

*I have a task waiting on DB Helot. Can anyone help me define who, what, when, where, and how?*

Helot tasks are slave tasks dispatched by the DB resource controller, usually task 1. The resource controller will not wait for a task to complete, so he dispatches the Helot task to accomplish the work. Usually you will see this if you attempt to vary an area and a task is still executing within the area, and the area is attempting to Quiesce. For example, if you vary the load area to offline without first varying the corresponding run unit loader off, you will get a Helot task until the request is completed. There are others, but this is the most common.

iupa



## IUA CONNECTIONS

### STAFF

#### Communications Chairperson

James Winn, *Williams International*

#### Editor

Julie Schaeffer, *IUA Staff*

#### Correspondents

Bill Bryson, *Hexcel Corporation*

Chris Hoelscher, *Sophisticated Business Systems*

Brock Shaw, *Torridon Associates Ltd.*

Susan Weiland, *Heller International Corporation*

#### IUA National Chairperson

James Rice, *Southern Company Services, Inc.*

*IUA Connections* is a quarterly publication of the Information User Association (IUA). It is designed to promote its members' objectives. *IUA Connections* is not responsible for the opinions expressed by its writers and editors.

#### IUA

401 N. Michigan Ave.  
Chicago, IL 60611-4267  
Phone: 312/321-6827  
Fax: 312/527-6636  
E-Mail: iua@sba.com  
Web: www.iuassn.com

## HELPFUL HINT

The IDMS online system has limits, which can be set at the system level to terminate tasks that exceed certain thresholds in resource utilization.

#### DCMT DISPLAY LIMITS

ONLINE TASK LIMITS ARE ENABLED

STORAGE LIMIT 750

LOCK LIMIT OFF

CALL LIMIT 50000

DBIO LIMIT OFF

EXTERNAL TASK LIMITS ARE ENABLED

STORAGE LIMIT 750

LOCK LIMIT OFF

CALL LIMIT OFF

DBIO LIMIT OFF

This is a handy feature, but there is no DCMT command to alter the limit values in an active system, and you can only enable/disable what is already set for the entire online or external group. Altering the values requires a SYSGEN compile, and recycle of the system. But, you may need to adjust these values in the middle of the day, without cycling the IDMS-CV system. So, the values can be changed in memory. This is how:

DCMT DISPLAY MEMORY CSA 1000 (CSA + 3A8 = CSARLBA,  
the Resource Limit Block Address)

DCMT DISPLAY MEMORY <CSARLBA-address> 48

See DSECT #RLBDS definition for this memory block. Then alter the values in hex using the DCMT VARY MEMORY command. For example,

DMCT VARY MEMORY <RLBA-address> + C X'3D090'

This changes offset C (online lock limit) to 250000. Verify with DCMT DISPLAY LIMITS. You should see the new value in the display results.

It's never too late for another "it worked in 10.2" gotcha (i.e., a schema set definition, valid in 10.2 AND valid in 12.01 per the DBAdmin manual). For example:

MODIFY

SET NAME IS SET-NAME

ORDER IS SORTED

MODE IS INDEX BLOCK CONTAINS 244 KEYS

OWNER IS OWNER-RECORD-NAME

NEXT DBKEY POSITION IS 3

PRIOR DBKEY POSITION IS 4

MEMBER IS MEMBER-RECORD-NAME

INDEX DBKEY POSITION IS 1

OPTIONAL AUTOMATIC

KEY IS DBKEY ASCENDING

DUPLICATES ARE LAST

NATURAL SEQUENCE

This would not validate:

\*+ E DC643149 SET SET-NAME MEMBER RECORD MEMBER-RECORD-NAME HAD AN ERROR IN \*+ - DC643149 THE KEY CLAUSE

The answer? If a set is ordered by DBKEY, the option DUPLICATES must specify NOT ALLOWED. No DOCUP has been created; this is just one of those things that should not have worked in 10.2, and did, but has been closed in 12.01 and beyond.