



iua

CONNECTIONS

The CA-IDMS Database and Applications User Association

<http://www.iuassn.com>

Winter 1998, Number 40

● IUA TROOPS ASSEMBLE FOR BOOT CAMP 1998

Looking for low-cost education for the CA-IDMS developers and database administrators in your shop? Want to investigate solutions to the development and administration problems that arise in your day-to-day activities? If so, enlist now for the 1998 IUA workshop, **CA-IDMS Developer and DBA Boot Camp**. Scheduled

to take place March 8 - 10, 1998, in Orlando, FL, the workshop will provide an excellent opportunity for you to obtain education about CA-IDMS DBA and developer topics (see the Boot Camp training schedule on page 2 for detailed topic information). **Dee Fisk** and **Bob Dobbs** will lead a team of industry-acknowledged experts (including veteran practitioners from **Arch Consulting**, **DBsoft**, **Sophisticated Business Systems**, and **Tiberon Technologies**). And, at only \$98 per registration (with a buy-one-get-one-free offer), you may never find a better educational value. Register today! Call IUA Headquarters at 312/321-6827 or e-mail us at iua@sba.com for details.

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IUA TACTICAL PLANNING SCHEDULE

Saturday, March 7

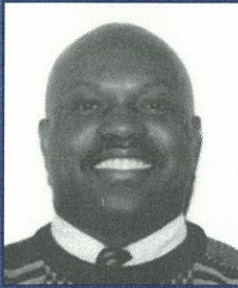
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|--------------------|---|
| 8:00 - 10:00 a.m. | Planning Committee Meeting |
| 10:00 - 11:00 a.m. | Executive Board Meeting |
| 11:15 - 11:45 a.m. | Nominations Committee Meeting |
| 12:00 - 12:30 p.m. | Communications Committee Meeting |
| 12:45 - 1:15 p.m. | Advisory Committee Chairs Meeting |
| 1:30 - 2:30 p.m. | Products and Services Committee Meeting |
| 2:30 - 3:30 p.m. | Executive Committee Meeting |
| 4:00 - 8:00 p.m. | Technical Advisory Committee Meeting |
| 4:00 - 8:00 p.m. | Applications Advisory Committee Meeting |

Sunday, March 8

- | | |
|-------------------|---------------------------|
| 9:30 - 11:00 a.m. | IMC 1998 Planning Meeting |
|-------------------|---------------------------|

Monday, March 9

- | | |
|------------------|-------------------------|
| 7:00 - 8:00 a.m. | Annual Business Meeting |
| 6:00 - 9:00 p.m. | Executive Board Meeting |
- (continued on page 2)*



MESSAGE FROM THE PRESIDENT

by James Winn

IUA volunteers have been working on two major events which will occur in the CA-IDMS arena within the next six months.

First, IUA will present its 1998 workshop, CA-IDMS Developer & DBA Boot Camp. This workshop is a series of sessions designed to refine the skills of CA-IDMS developers and database administrators. Specific information about the workshop is on page 1.

The next event will be the Information Management Conference (IMC) at CA-World 1998. If you have attended previous CA-World conferences, you are aware of the tremendous benefits of attendance. This conference provides a mix of user presentations, technical education, and vendor presentations. Also, two days of free education will be available prior to the start of CA-World 1998.

Both of these conferences are designed to help CA-IDMS users better utilize their investments in CA-IDMS products.

To encourage CA-IDMS professionals to attend the spring 1998 IUA workshop, IUA has a special buy-one-get-one-free offer. Every paid workshop attendee may bring a second person from his or her organization absolutely free. Also, all IUA members are eligible to receive a \$200 discount on their CA-World 1998 registration.

(IUA Troops Assemble, cont. from page 9)

BOOT CAMP TRAINING SCHEDULE

Sunday, March 8

8:00 a.m. - 8:00 p.m.	Registration Open
9:30 - 11:00 a.m.	Early Bird Event (Sponsored by Marketing and RUG Committees)
1:00 - 5:00 p.m.	Developer Program: ADS
1:00 - 5:00 p.m.	DBA Program: Physical Database Administration
7:00 - 8:30 p.m.	Welcome Reception

Monday, March 9

7:00 a.m. - 6:00 p.m.	Registration Open
7:00 - 8:00 a.m.	Continental Breakfast
8:00 - 11:00 a.m.	Developer Program: DML
8:00 - 11:00 a.m.	DBA Program: System Administration
11:00 a.m. - 12:00 p.m.	Vendor Presentations
12:00 - 1:00 p.m.	Lunch
1:00 - 2:00 p.m.	Vendor Presentations
2:00 - 4:30 p.m.	DBA Program: Logical Database Administration
2:00 - 6:00 p.m.	Developer Program: GUI-IDMS/CAS
4:30 - 6:00 p.m.	DBA Program: Backup/Recovery Administration

Tuesday, March 10

7:00 - 8:00 a.m.	Continental Breakfast
8:00 - 9:30 a.m.	DBA Program: System Software Administration
8:00 a.m. - 10:30 a.m.	Developer Program: Web-IDMS/CAS
9:30 - 11:00 a.m.	DBA Program: Migration Administration
11:00 a.m. - 12:00 p.m.	Vendor Presentation
12:00 - 1:00 p.m.	Lunch
1:00 - 2:00 p.m.	Vendor Presentation
2:00 - 4:00 p.m.	Developer Program: Web-IDMS/CAS
2:00 - 4:00 p.m.	DBA Program: Problem Determination and Resolution
4:00 - 4:30 p.m.	Grand Prize Drawing

IUA CONNECTIONS SEEKS CONTRIBUTORS WITH THE "WRITE" STUFF

IUA Connections welcomes user contributions. We will pay \$100, upon publication, for any user-written article dealing with a legitimate topic within the CA-IDMS environment. The article must have been written by the individual submitting it, and must not have been previously published. Please send all articles for submission to JSchaeff@sba.com.

● ENLIST NOW FOR ORLANDO MANEUVERS AND TAKE ADVANTAGE OF ORLANDO ATTRACTIONS

There's no better location than Orlando for the 1998 IUA workshop. The Adam's Mark Hotel has an outdoor pool, jacuzzi, putting green, gift shop, and free parking. It's only steps away from the 180 shops and restaurants in the Florida Mall, the area's largest indoor shopping center, as well as some of Orlando's best-known attractions, including Walt Disney World (Magic Kingdom, EPCOT Center, and MGM Studios), Universal Studios Florida, Sea World, the Kennedy Space Center, and Cypress Gardens. Below are just some of the attractions you can take advantage of in Orlando.

THEME PARKS

The big attraction in Orlando is the **Walt Disney World Resort** (407/824-4321), which includes the Magic Kingdom, EPCOT Center, MGM Studios, and more. The 444-acre **Universal Studios Florida** (407/363-8000) is another popular theme park catering to movie buffs. Or, if you have a more intellectual odyssey in mind, try **Splendid China** (407/397-8800), a 76-acre park showcasing China's most famous sites, including the Great Wall and Imperial Palace, in miniature and full-scale exhibits.

SCIENCE AND NATURE

Orlando is the ideal place to blast off into the world of N.A.S.A. Call the **Kennedy Space Center** (800/KSC-INFO) for more information about this famous museum. Or, if biological attractions are more your speed, you can see marine creatures and shows at **Sea World** (407/351-3600) and exotic animals in a lush tropical setting at **Jungleland** (407/396-1012). If you can't come to Florida without seeing a swamp, try **Gatorland** (407/855-5496), which features thousands of alligators, crocodiles, birds, and other swamp creatures.

WATER PARKS

For roaring rapids, twisting tides, surf rides, and wonderful waterways (including slides and flumes), try one of these Orlando water parks: **River Country** (407/560-9283), **Typhoon Lagoon** (407/351-5651), **Water Mania** (407/396-2626), **Wet 'n Wild** (407/351-1800), or **Blizzard Beach** (407/560-9283).



GO-KARTS, RACING, AND MORE

For racing, go-kart tracks, bumper cars, games, and rides for adults and kids, try one of these attractions: **Kartworld** (407/345-9225), **Malibu Grand Prix** (407/351-7093), or **Fun Wheels Family Fun Park** (407/351-5651).

MISCELLANEOUS

Don't miss the world's foremost tropical showplace at **Cypress Gardens** (800/282-2123). See more than 200 oddities and exhibits gathered from around the world by explorer Robert Ripley at **Ripley's Believe It Or Not Museum** (407/363-4418). Or, 18 holes of miniature golf among waterfalls, hills, and boulders at **Pirate's Cove Adventure Golf** (407/352-7378).

● IUA PROPOSES BYLAW CHANGE

At the annual IUA meeting held in conjunction with the IUA spring 1998 workshop, the association's board of directors will vote on an amendment to the association's by-laws. IUA proposes changing article VI (paragraph 2) by replacing "Not more than four of the elected directors may be representatives of provider member organizations" with "The board of directors may set, by policy adoption, a limit as to the number of elected directors that may be representatives of provider member organizations."

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● REGIONAL USER GROUP (RUG) UPDATE

The **Minnesota IDMS User Group** began meeting again this year after a two-year hiatus. On July 29, 17 people from six companies met at the Computer Associates (CA) office in Minneapolis, MN. The theme of the meeting was the year 2000. Presentations were given by Phil Loethen of HSL (project 2000 tools), Frank Ghert of the U.S. Post Office (date simulator), and Dave Baar of Pillsbury (security). For more information about the Minnesota IDMS User Group, which meets two to four times a year, please contact Bill Gentry at 612/775-1190.

The **Pittsburgh IDMS User Group** met on September 4 at the CA office in Pittsburgh, PA. CA provided a status report of its organizational structure. Other presentations included a discussion of year 2000 solutions for IDMS (by Phil Loethen of HSL) and a discussion about accessing TCC through the Internet. For more information about the Pittsburgh User Group, please contact Gene McCormick at 412/490-8818.

The first meeting in nearly two years of the **Dallas-Area CA-IDMS User Forum (DCUF)** took place Wednesday, October 22, at the Irving, TX, office of CA. More than 20 attendees from 10 IDMS sites participated in presentations about year 2000 compliance, solutions, and tools given by both CA and HSL. The next DCUF meeting will take place Wednesday, February 11, at a to-be-determined site. For more information, contact Chris Hoelscher at 972/756-1938, visit the IUA home page (www.iuassn.com), or visit the DCUF home page at www.causergroups.com.

The **Harrisburg (PA) IDMS User Group** met on November 12 at the Harrisburg West Holiday Inn in Harrisburg, PA. Twenty-four people from three companies attended. Mary Orite-Shea of CA gave presentations about OPAL and CA's solutions to the year 2000 problem. Phil Loethen of HSL discussed his company's project 2000 tools, which are designed to help the year 2000 effort. For more information about the Harrisburg IDMS User Group, please contact Tom Bolton at 717/255-6463.

Approximately 20 people from numerous companies attended the **Ohio Valley User Group (OVUG)** meeting on September 15 - 16 at the ISD Computer Learning Center in Indianapolis, IN. Presentations included IDMS Internals, IDMS Hyper APARS, and HSL project 2000 tools. Attendees also discussed the year 2000 and recapped CA-World 1997 for those who did not attend. OVUG meets three times a year for two days, usually on a Monday and Tuesday. The next meeting is tentatively scheduled at Lexus-Nexus. For more information about OVUG, please contact Dan Hall at 513/583-3525.

STARTING A REGIONAL USER GROUP

Are you interested in meeting with other IDMS users in your region? Has the IDMS regional user group (RUG) to which you belonged stopped meeting? Would you like to start a RUG in your area? IUA members in the **New Jersey/Delaware Valley area** and the **Washington, DC/Virginia area** have already answered "yes" to these questions. If you, too, would be interested in forming a RUG, please contact Sue Weiland, IUA's RUG chairman, at 312/441-6821 or IUA Headquarters at 312/321-6827. (For more information about the New Jersey/Delaware Valley area RUG, please contact Mike Bruno at 609/655-6634. For more information about the Washington, DC/Virginia area RUG, please contact Sue Weiland or IUA Headquarters.)

More than 25 people from 18 companies attended the **CA-IDMS Midwest Users Group (CMUG)** meeting on Wednesday, November 12, at the Lisle, IL, office of CA. Sue Weiland, IUA's RUG chairman, discussed the importance of IUA membership and volunteering. Dick Weiland of CA Support gave a presentation entitled "CA-IDMS/DB Database Performance Analysis." Ron Szczepanski, lead technical database administrator at Whirlpool Corporation, delivered "UDAS - UCF Distributed Applications Synchronous." And Jim Moore, president of Concentrated Logic Corporation, provided a lesson in DASD geometry in a presentation entitled "From Platters to Raid." CMUG currently meets twice a year, usually in May and November. For more information, please contact Jim Moore at 630/510-0227 or Sue Weiland at 312/441-6821.

● APPLICATIONS ADVISORY COMMITTEE (AAC) UPDATE

Several issues were addressed at the recent IUA Applications Advisory Committee (AAC) meeting.

CA Responsiveness. In response to member company concerns, Computer Associates (CA) promised to make AAC concerns that do not require database changes a priority. Concerns that require database changes will be addressed in new software releases.

CA Beta Testing. Member companies are requesting that CA's beta testing process be more thorough, citing instances in which software changes have been made available before being completely tested. CA explained that test samples are sometimes small when software changes are company-specific.

CA Support. Member companies have expressed hesitance to move forward with CA products and enhancements because of the perception that support is not readily available. CA emphasized that companies planning to change or enhance products should let CA know in advance. CA will then alert support personnel, flagging the transition site for "special attention" during the transition.

IUA Mailing List. Some member companies have mentioned that they and other new IUA member companies have not received mailings about upcoming IUA events. This problem arose, in part, because address information supplied by member companies is often incomplete or illegible. IUA will attempt to remedy this problem by CA-World 1998 by obtaining a list of Information Management Conference (IMC) attendees from CA. The IUA staff will continue to update the mailing list with new member information. It will also change existing member information upon request. Member companies are encouraged to inform IUA of address problems as soon as possible so that future mailings can reach all members.

● TECHNICAL ADVISORY COMMITTEE REPORT

The Technical Advisory Committee (TAC) has acquired responsibility for all IUA-supported products formerly administered by the End User and Developer Technical Advisory Committee (EUDTAC). The TAC will process all DARs submitted for products such as CA-OLQ and CA-CULPRIT.

In other news, the TAC will soon publish its 1998 enhancement request ballot. This ballot is officially recognized by Computer Associates (CA) as the method of ranking user-submitted enhancement requests for the CA-IDMS product suite. ●

IMC AT CA-WORLD 1998 WANTS YOU!

Would you like to be a leader in the IDMS community, and at the same time strengthen your speaking and presentation skills? **Would you like a free registration for the Information Management Conference (IMC) at CA-World 1998?** If so, consider presenting a user experience session during IMC at CA-World 1998. Internet/intranet and CA-IDMS connectivity, release 14 experiences, year 2000 conversion, and client/server successes are among the many topics that have proven popular at past conferences. Register your presentation at <http://www.caworld.com/caworld1998/call.htm> today!

● QUALITY CONCERNS TO BE FORWARDED TO CA FOR REVIEW AND ACTION

As part of a continuing partnership with Computer Associates (CA), IUA held its semi-annual Business Issues Forum (BIF) at CA World 1997. Discussion focused on quality matters related to CA-IDMS products. In an effort to more effectively address quality, CA representatives have asked IUA to solicit specific examples of quality matters from its membership. CA will address these issues in future BIFs. If you have a quality issue, please send a letter or e-mail message to BIF Chairman Joe Wodushek. In the letter, explain how the issue affects your operations and how you would like CA to address the issue. IUA will submit all issues to CA and report the results at the next BIF, which will take place during CA World 1998.

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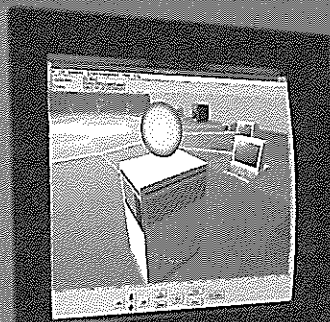
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Archive of IDMS-L

● QUESTIONS AND ANSWERS

I read somewhere that you can get year 2000-compliant dates from COBOL II. Is this true? If so, before I try it, are there any implications from an IDMS-DC point-of-view?

Release 4.0 (level 9511) of COBOL II allows you to call IGZEDT4, which returns a full eight-character date from the system. You don't have to use COBOL FOR MVS (LE/370) to get the century from the system date. This works fine for IDMS. Just define a PIC 9(8) field and call "igzedt4" using the 9(8) field. We do this in a called program for all our systems. The date is then passed back to the calling program.

I would use the "DC GET TIME INTO" command. It will return a leading 0 for 1900, 1 for 2000, 2 for 2100, etc. This way, if you are using HSL's date simulator, it will return the simulated date for DC-COBOL as any dialog would.

Has anyone migrated to different releases of IDMS while using PressPack for Compression (release 12.0, levels 9605 and 9503, and release 14.0, level 9610)? We are running low on DASD, so we have to go to full compression on a critical application that uses onlines and batch processing. We have used compression with success on non-volatile database files, and it looks like the ideal solution to our problem. Can someone tell me about the difficulties and benefits of such an approach?

We use PressPack heavily. For our network data, we usually use the built-in DCT, but we have experimented with custom DCT's for a few records. If you have any SQL-defined tables, the built-in DCT does not efficiently handle the "richer" numeric data types that are found in SQL tables. We opted for our own custom SQLDCT. PressPack has never presented us with any problems. (IDMSCOMP/IDMSDCOM presented a major problem for us in our move to 12.0 level 9304.)

We are shopping for an external monitor, and are looking for different sites that may be using such monitors. Does anyone have any advice?

Allen Systems Group has a product that may do the trick for you. I evaluated it for a customer that was interested in replacing Computer Associate's (CA's) Performance Monitor, and was happy with its performance and price. I have also used PMDC from International Software Products (ISP) on several IDMS systems. This product has proven very useful as an external monitor. It allows one to dump a hung CV address space to a VSAM file and later look at it with PMDC (as if it were still running). It also allows one to change memory in a CV: if you have a looping

● THE END OF THE WORLD IS NEAR

Less than 120 days are left until the end of the world – CA-World 1998, that is.

CA-World 1998, rescheduled for April 26 - May 1 in New Orleans, LA, will be filled with the sounds of the New Orleans Heritage and Jazz Festival. Experience the exotic sights, riveting sounds, mouth-watering smells, and the unmistakable tastes that are New Orleans at CA-World 1998.

But, don't forget the reasons CA-WORLD exists: to provide low-cost access to top-notch education; to allow users of CA products to meet and interact with CA personnel and each other; and to see the latest technological advances from CA and other vendors at the World Resource Center.

Don't wait - register now. Due to of the Jazz Festival, airline and hotel space will be booking fast. Register for IMC at CA-World 1998 today.



transaction, you can change its TCB to tell IDMS to cancel it. Finally, it allows one to chase control blocks by positioning the cursor and pressing enter. All of these features have proved useful when debugging a problem in an IDMS region.

Has anyone heard of an ADS/O to COBOL converter?

Information Analysis has a product, UNICAST, that will convert ADS/O to DC-COBOL (IDMS).

One of my clients is undergoing a large conversion to 12.01. I would like to proceed with conversion to OS/390 before the IDMS conversion. The client would like input from other 10.21x clients running under OS/390. Specifically, what release of 10.21 is running, what release of OS/390 is running, and is premium support in place?

About four months ago, we implemented OS/390 with 10.213 (no premium support) monitors and did nothing to them. IDMS took off, as usual, and we have seen no problems thus far.

(Archive of IDMS-L, cont. from page 9)

We have brought up “tech” IDMS regions in an LPAR running OS/390 with no problems so far. Computer Associates (CA) expects no problems.

We are at S10213, not S10212. Thus far, we have not needed to recompile or change anything to run under OS/390.

In a previous post, the GJ9707 maintenance tape was mentioned. Has anyone installed it successfully? Has anyone installed GJ9707 with an external security manager such as Top Secret or ACF2?

I have installed 9707, and it is working. You must relink the SVC, the startup module (if you're not using any of the four supplied startup modules), and the RHDCSRTT module with the new parameter on the type=initial parameter. You also must load/refresh the SVC. The following modules must be available to CAIRIM at CAIRIM runtime:

- IGCxxx, 9707 version
- GJC0INIT, 9707 version (the pre-9707 version cannot be used)
- RHDCSSFm (this replaces RHDCSSFI)
- CAS9SEC (this is not an IDMS file, but rather a CA90s file, but the new GJC0INIT causes it to be loaded)

A complication arises, however. If your LPAR shares 9707 regions with pre-9707 regions, a little more work needs to be done. Since 9707 requires a unique GJC0INIT, it must be renamed if it is to be placed in a library with a pre-9707 GJC0INIT. You must also pick a different SVC, make sure it is linked, make sure the RHDCSRTT points to the NEW

svc number, make sure the systems affected point to the new SVC, and make sure that both SVCs are loaded/refreshed via CAIRIM. All this can be reversed when all CVs on the LPAR are in sync, release-wise.

I am trying to modify RHDCSNON using the source supplied in the SAMPJCL. However, it has a call to #GETMODT for which no source exists in any library I can find. Can someone point me in the right direction?

RHDCSNON, as delivered in the BASE.SAMPJCL dataset, cannot be assembled because a macro (#GETMODT) was not distributed. This is still the case. However, member SIGNON in the same library contains a #GETMODT-free version of RHDCSNON. It also has an additional feature – it allows a CLIST (if one is specified in the session profile) to be executed from somewhere other than the default dictionary.

Pages 13 - 40 of the Release 12 Database Administration manual contain a note that IDMSCOMP and IDMSDCOM should be called at the AREA level before finishing. What will happen if this is not done? It's a nuisance for us to add this procedure to the R12 schema definitions, but since we're juggling two sets (R10 and R12) until our development CV is also converted, I'd like to know what the risk of forgetting it is.

There is no risk. Calling the procedures at FINISH freestgs the storage acquired for work space along the way. However, IDMS (DC) releases this storage space when the task or run unit goes away anyway, so no harm is done. I've been running release 12.0 for a number of years with the procedure calls the way they were in 10.21, and I have not experienced any problems.

(continued on page 12)

● COMPUTER ASSOCIATES CA-IDMS UPDATE

by Judy Kruntorad, CA-IDMS Technology Owner

Computer Associates (CA) is continually working to enhance the usability of its products. Below are just a few details about new releases and enhancements.

CA-IDMS 14.0. CA-IDMS 14.0 for VSE is now available, and the BS2000 version will be available by the end of November. The beta release of CA-IDMS 14.0 for MSP is available, and the VM version of CA-IDMS 14.0 is in quality assurance, with beta availability planned for 1998. The first CA-IDMS 14.0 maintenance release (9711) will be available by the end of 1997 for MVS and VSE.

Maintenance Tapes. The 9707 maintenance tape for CA-IDMS 12.0 is available. The maintenance tape for CA-IDMS Tools 12.0 (to provide year 2000 compatibility) will be available by early 1998. Future maintenance tapes for CA-IDMS 12.0 will

be produced if the need exists. There are currently no plans to end support for CA-IDMS 12.0.

CA-Endeavor/DB 14.0 is available. It is downward-compatible for use with CA-IDMS 12.0 and 14.0.

The beta version of **Unicenter TNG CA-IDMS Agent** is available. We are currently accepting beta test sites.

CA-IDMS Visual DBA is in the quality assurance test phase, and is scheduled for a beta release by the end of 1997. It requires CA-IDMS Server for mainframe communication. CA plans to provide it at no charge to CA-IDMS SQL Option clients.

CA-IDMS Server 4.1 (with full multi-threading support) is in development. Beta release is targeted for early 1998.

A feature to support multiple page group access from a single CA-IDMS run unit is in development. Details about this feature and other enhancements planned for future releases of CA-IDMS (such as full data sharing in a sysplex environment) will be presented at the Information Management Conference (IMC) at CA-World 1998.

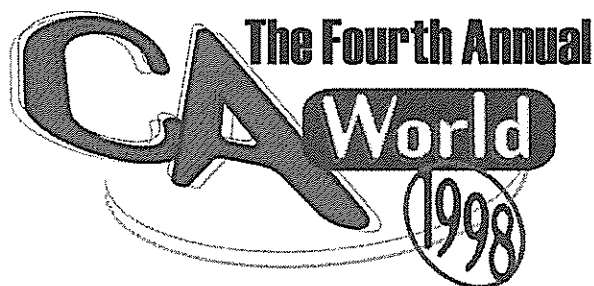
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● IN THE NEXT ISSUE...

A Look Back at the First 10 Years of IUA Connections

A Review of IUA Boot Camp 1998

A Preview of IMC at CA-World 1998

Meet Your New IUA Board Members

Meet Your New IUA Officers

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HELPFUL HINTS

As we continue to progress toward a migration from release 12.01 (level 9607) to release 14.0 (level 9610), I stumbled across the mystery of the "missing bind counts." As most of you probably remember, additional statistics were made available to monitor bind activity by dbname. This performance information displays when issuing the DCMT DIS DBTB command. It is very useful when tuning dbnames. However, in release 14.0, the data is no longer available; the DBTB is now searched in a binary fashion. This important enhancement isn't mentioned in the release 14.0 documentation. An excerpt from my Webtrack contract follows: "Due to performance considerations in release 12, functionality was added to the 9506 genlevel in order to assist clients in tuning their dbname table. The problem arose as a result of the inability to define segments in a specific order within a dbname. As a result of this, locating areas during the bind process for a rununit became an expensive process."

The code added to the 9506 genlevel counted the number of times a segment within a dbname had an area which had a subschema area mapped to it. Code was also added to DCMT and LOOK to display these counts. This additional information allowed clients to examine the way the segments in their database were being used and redefine their segments and move areas around in order to improve the mapping of high usage areas. When release 14 was created, this code was removed and the dbtable was redesigned in order to provide a binary search capability to speed up the BIND process. This new search facility for the dbtable has vastly improved the BIND process for release 14 over that of release 12.

Development has indicated that the counting and display code is no longer needed in release 14.

● MEMBER PROFILE



MEL DENNISON

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IUA Experience: Dennison has been an active participant on the IUA board of directors since 1987. He is currently secretary/treasurer and chairman of the Finance Committee. He was previously chairman of the Advisory Committee and the CA-World Conference Committee.

Work Experience: Dennison has 13 years of experience with various IDMS products. His expertise is in installation, management, and product updates.

"As a board member, I will continue to offer my expertise in both financial and accounting matters to IUA. This will help keep IUA a financially stable organization. I will also continue to serve on various committees and work with the member companies to help bring new ideas and solutions to IUA."

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