

THE SPOOLFILES

A Publication of EasySpooler

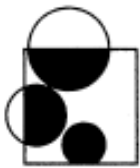
Spring 2003

Reaping Success with Harvest Technology Group

Harvest.

What a great word! Makes you think of abundance, feasting, wealth, well-being. And it connotes the rich feelings of diligence, persistence, accomplishment, and—perhaps above all—blessing.

We know some of the people at Harvest Technology Group, and we can tell you they live up to their name. They are technically proficient. They work as a team. They are focused and persistent.



HARVEST
TECHNOLOGY GROUP, INC.

Harvest Technology Group partners with companies to design and engage end-to-end enterprise content and distributed output management solutions. Their products and services empower organizations to effectively and painlessly transform inefficient, paper-based data capture, processing, storage, retrieval and delivery methods into a comprehensive, highly configurable and secure information management and communication system. Offering expertise their clients may not have in house, Harvest implements technical and process-oriented solutions that enable organizations to focus on what they do best—their business!

As they state on their web site: "Harvest Technology Group is committed to forming long-term, synergistic, mutually beneficial and ethically sound partnerships with our strategic alliances and our customers. We strive to create and maintain a truly interactive business environment. These basic principals form

the foundation of our business model. Our success, however, is measured only by the achievements of our clients."

Forging mutually beneficial relationships. Defining Harvest's success in terms of their client's success. Sounds like a winning strategy.

No wonder their clients are so pleased.

Take Savannah Foods (Savannah, Georgia) for example, whose lack of forms control was crippling the company. Mike Lance, Savannah's Business Systems Manager, says the Harvest solution has given them

"quality forms that can be modified instantly." Harvest's expertise directly and immediately affected their bottom line with annual savings of approximately \$70,000. Are they pleased? Walker Prescott, Electronic Data Interchange Coordinator, beams, "There's no telling where we'll go from here."

Harvest's list of satisfied clients is impressive, including Affymetrix, General Aluminum, and Southern Mills, among others. Their clients come in many different sizes, and include businesses from biotech to insurance, manufacturing to financial services.

Why does Harvest always use EasySpooler as part of its solution? Armand Lange, Vice President of Business Development, says that at the top of the list is the fact that EasySpooler assures delivery of a report wherever it goes. EasySpooler's reliability means the Harvest sales team can honestly assure prospects that they will get their

jobs when, where, and as they want them.

Clients rate the ease of setting up output queues, handling large print jobs, and moving jobs from one output queue to another as their favorite features. These enable them to save time, and the system is so easy to use that one person can manage it.

For Harvest's technical team, EasySpooler's seamless integration and ease of use release them to focus on the business-specific problems of an implementation. In fact, Armand says they have found that installing and implementing EasySpooler presents "no challenges." One of their major European clients installed EasySpooler without help and without a hitch. They were extremely impressed with the technology, and are now installing EasySpooler throughout their European network.

When we asked Armand why Harvest selected EasySpooler in the first place, he said, "It's simple. We evaluated three different candidates and EasySpooler was 'best-of-breed.' It beat the others in technological efficiency and ease-of-use, market place acceptance, and compatibility with our existing customers. Finally, we asked ourselves, Do we want to do business with this company? Do we like the people?"

Is it any wonder we're so excited that Harvest has chosen EasySpooler as part of their solutions package?

Take a look at www.harvesttechgroup.com and see if they can't help you reap more profits!

Technically Speaking

by Edward Elzey

EasyTrack is a new product that enhances your EasySpooler or Everest system, providing the ability to set output quotas for your users. These quotas may be enforced, or not, at the administrator's will. Quotas are set in arbitrary points and the cost in points/page is configured for each printer. In this issue I will show you a script that will produce the report displayed below, showing each user's quota usage and the current amount of that quota remaining. This report is designed to be used during the reporting period to monitor users who are approaching their quota.



The information about each user is obtained from EasyTrack with the `lpsqls -extract` command. This command dumps the quota data base in a *comma separated variable* (CSV) format. This output also includes system and destination records, so those must be separated and discarded since I do not use them in this report. The user records are identified by a U in the first field. I then sort the records in descending numeric order on the amount of quota used. This is from field 15 of the user record. These commands to extract and sort make up a pipeline which feeds data to an `awk` script which produces the actual report. Note that on some systems it may be necessary to use `nawk`. This portion of the pipeline is:

```
lpsqls -extract |
grep '^U' |
sort -t, +15rn |
awk -F, `
```

The `awk` script contains 4 parts; a function to print page headings, an initialization section, the procedure to run for each user, and a wrap-up procedure.

The function to print page headings is the largest part of the entire script, but is mostly about formatting the headings to get them in the right place on the line. The real meat of the function is to output a *form-feed* character if this is not the very first page of output, incrementing the page number, and resetting the line count for the next page.

```
function begin_page() {
    if ( page > 0 ) printf("\f")
    page++
    ...
    lines = 6
}
```

The initialization routine only has to set the line count and page count properly so that a heading is printed if at least one data line is found.

```
BEGIN {
    maxlines = 57
    lines = 67
    page = 0
}
```

The routine to print each detail line is also simple. It first checks to see if the page is full, prints the detail line while calculating the amount of quota remaining on-the-fly, then increments the line count. The numbers preceded with dollar signs are field numbers in the CSV output. Please, excuse the split lines which were too wide for my column.

```
{
    if ( lines > maxlines ) begin_page()
    printf("%-8.8s %6d %6d %6d %7d \
          %7s %-29.29s\n", \
          $2, $17, $18, $16, ($15 - $16), \
          $15, $12)

    lines++
}
```

Finally, to wrap-up, a final *form-feed* character is emitted, but only if any other lines were generated. As with all well-behaved report programs, no output is generated if no input was provided.

```
END {
    if ( page > 0 ) printf("\f")
},'
```

Note that the final single-quote on the last line matches, and closes, the single quote terminating the `awk` command in the initial pipeline.

```
#!/bin/sh

if [ -z "$LPSDIR" ]
then
    ./usr/spool/lps/adm/bin/shinit.sh
else
    $LPSDIR/adm/bin/shinit.sh
fi

PATH=$LPSDIR/extract:$PATH ;export PATH

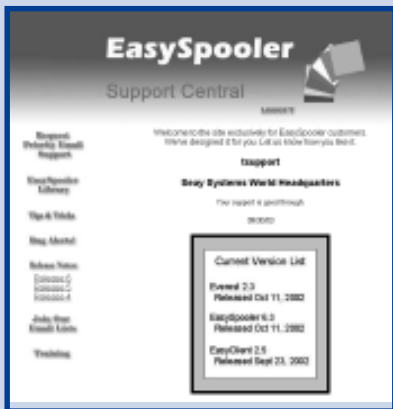
lpsqls -extract |
grep '^U' |
sort -t, +15rn |
nawk -F, `
function begin_page() {
    if ( page > 0 ) printf("\f")
    page++
    printf("\n%-20s %30s %14s Page %d\n", \
           " ", "Output Quota Interim Report", " ", page)
    printf("%-8s %22s %7s %7s\n", \
           "Login", "Quota", "Quota", "Quota")
    printf("%-8.8s %6s %6s %6s %7s %-9s\n", \
           "Name", "Jobs", "Pages", "Used", \
           "Remaining", "Alloted", "Full Name")
    printf("\n")
    lines = 6
}
BEGIN {
    maxlines = 57
    lines = 67
    page = 0
}
{
    if ( lines > maxlines ) begin_page()
    printf("%-8.8s %6d %6d %6d %7d %7s %-29.29s\n", \
           $2, $17, $18, $16, ($15 - $16), $15, $12)
    lines++
}
END {
    if ( page > 0 ) printf("\f")
},'
```

You put this all together, along with some other boilerplate (explained in earlier columns), and the final result is as shown here at left.

Output Quota Interim Report						Page 1
Login Name	Jobs	Pages	Quota Used	Quota Remaining	Quota Alloted	Full Name
horst	13	779	1013	986	2000	Horst Horn Support Staff
yolanda	35	646	666	1333	2000	Yolanda W. Smith
root	194	444	587	1412	2000	Jupiter SuperUser
ezadm	40	398	545	1454	2000	EasySpooler Administrator
rich	36	345	439	1560	2000	Richard D Aven
jaf	19	300	373	1626	2000	Jo Anne Flynn
lillian	209	270	305	1694	2000	Lillian Miller Administration
cristi	79	246	290	1709	2000	Cristi C. Hurdle
don	61	170	223	1776	2000	Donald N. McDaniel
vickie	21	153	169	1830	2000	Vickie McDaniel Administratio
vsifax	89	144	189	1810	2000	VSI-FAX login
karen	54	124	128	1871	2000	Karen A. Garver
blake	56	95	99	1900	2000	Blake Taylor
jan	51	94	134	1865	2000	Jan E. Kelly
chuck	29	89	124	1875	2000	Chuck F. Seay III Support Sta
mike	25	86	124	1875	2000	Mike Renshaw
edward	23	78	107	1892	2000	Edward E. Elzey
www	47	77	93	1906	2000	World Wide Web Account
bob	23	66	87	1912	2000	Robert J. Fazen
vernon	20	57	72	1927	2000	Vernon E. Hurdle Technical Se
joanie	5	13	16	1983	2000	Joanie Seay Administration
ken	5	5	5	1994	2000	Ken Scialo Sales
placewar	5	5	7	1992	2000	Placeware User
bill	2	2	2	1997	2000	William H. Seay
naul	1	1	1	1998	2000	Paul Edwards

Support Central

You've done it! You've exceeded expectations! In the brief time since its web launch, more of you have joined Support Central than we anticipated! You told us you wanted it, and—wow!—did you mean it!



We're delighted that so many of you are finding the site helpful. Your vote of confidence is quite encouraging. Those of you who still haven't joined, surf to www.easyspooler.com/login.html and register!

We are continuing to grow the site as a top priority and, since you're the reason there is a Support Central, we solicit your suggestions.

Everest

You already know how fast, efficient, and flexible EasySpooler is. It's easy to use, easy to maintain, and delivers on all its promises.

But . . . Do you have multiple servers and dream of a central point of control?

Do you need output redundancy, so that when a server crashes you don't lose its printers too?

If you answered "Yes!" to these questions, let us answer "Yes!" to you with Everest. Call us at 214.522.2324.

Support Schedule

Our offices will be closed in observance of Memorial Day on May 26th.



EasySpooler's Mike Renshaw poses with Kristin Moore of IBM Printing Systems Company at the IBM P-Series Show in Dallas.

Rico's Review

Are you Puzzled by EasySpooler's Printer/Job Permissions?



Gerardo Rico
Systems Analyst

With today's increasing concern for security, many of our current and prospective customers inquire about possible ways of controlling user access to destinations, print jobs, or a combination of both.

EasySpooler's security is implemented in a file called **lpsperms**, which you may edit with your favorite UNIX text editor (**vi**), or our increasingly popular option, *EasyClient*. With *EasyClient* you can edit permissions by clicking through the *Setup*, *System Config*, and *Security* tabs. This Windows-like approach can be a refuge from the sometimes challenging idiosyncrasies of UNIX editors!

Now, why would you be puzzled by *EasySpooler's* permissions? Don't be discouraged! Permissions in EasySpooler are a combination of your operating system user definitions, the UNIX **umask** setting, and the flexibility of *EasySpooler's* permissions file. Permissions can be tricky at times, but *EasySpooler* provides debug tools to solve any mysterious behavior.

The **lpsperms** file is located under **\$LPSPDIR/adm** (the default is **/usr/spool/lps/adm**), must be owned by the *EasySpooler* administrator, and must have **rw - r - - r - - (644)** permissions. At installation, the file **lpsperms.org** is copied to **lpsperms** to create a rudimentary security file for you.

Each entry in the **lpsperms** file consists of the following fields:

- Field 1
record type (**_user**, **_group**, **_default** and **_remote**): indicates the type user or group where permission controls are to be applied.
- Field 2
user or group name
- Fields 3 on up
permission imperatives: includes the destination(s) to which the users have access, along with parameters that define what kinds of privileges users have with these destinations.

The permission imperatives indicate whether or not to observe UNIX permissions, override the system **umask** setting, limit spooling and/or viewing to listed destinations, and so on.

For more detailed information, as well as implementation examples, please visit the Tech Tips corner of our web site @ <http://www.easyspooler.com/techtips.html>.

Training Classes in April, 2003

Seay Systems is offering hands-on training for EasySpooler at our office in Dallas, Texas **April 22-24, 2003**. The course is limited in size, and the cost is \$1,595 for the three days. Visit www.easyspooler.com/training.html for more information.

EasySpooler's course instructor Chuck Seay poses with Paul Edwards and David Young of Los Fresnos CISD at EasySpooler Training.



EasySpooler's February 2003 class, from left to right: Len Gossard of Columbus State Community College, Kim Le and



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