

```
$SOIF{„Archive“} =~ s|/TR/Data/|$ftpURL/| if $SOIF{„Archive“};  
$SOIF{„Document“} =~ s|/TR/Data/|$ftpURL/| if $SOIF{„Document“};  
  
while (($k, $v) = each %SOIF) {  
    &soif`print_item($k, $v);  
}  
exit 0;
```

A.2 broker/query.html

A.3 broker/BrokerQuery.pl.cgi

A.4 broker/lib/BrokerQuery.cf

A.5 broker/idx2html.cgi

```

    $SOIF{„$what“}=$1; }
    if(/^Document-ID:\s+(.*)$/){
        $SOIF{„$what“}=$1; }
}

#is there an archive file?
if($file=~m/^(.*).$IDX$/){
    local($pref)=$1;

    $debug && print „pref=$pref\n“;

    $f="$${pref}.lha";      if(-f $f){ $SOIF{„Archive“}=$f; }
    $f="$${pref}.zip";     if(-f $f){ $SOIF{„Archive“}=$f; }
    $f="$${pref}.tar";     if(-f $f){ $SOIF{„Archive“}=$f; }
    $f="$${pref}.tar.Z";   if(-f $f){ $SOIF{„Archive“}=$f; }
    $f="$${pref}.tar.gz";  if(-f $f){ $SOIF{„Archive“}=$f; }
    $f="$${pref}.tar.z";   if(-f $f){ $SOIF{„Archive“}=$f; }
    $f="$${pref}.gz";      if(-f $f){ $SOIF{„Archive“}=$f; }
    $f="$${pref}.Z";       if(-f $f){ $SOIF{„Archive“}=$f; }
    $f="$${pref}.z";       if(-f $f){ $SOIF{„Archive“}=$f; }
    $f="$${pref}.lzh";     if(-f $f){ $SOIF{„Archive“}=$f; }

    $debug && print „$pref.$IDX -> „,$SOIF{„Archive“},“\n“;
    $debug && print „\n“;
    $debug && print „\n“;
}

# Abstract
while(<IN>){
    $SOIF{„Abstract“}=$_;
}
close(IN);

# Div. Infos aus Filesystem:
# Semester, Version, Document, Archive, Document-ID
if(($fb,$stpe,$sem,$num)=$file=~m|.*\/TR\/(\S+)\/(\S+)\/(\S+)\/(\S+).$IDX|){
    $debug && print „fb = $fb\n“;
    $debug && print „type = $stpe\n“;
    $debug && print „sem = $sem\n“;
    $debug && print „num = $num\n“;
    $debug && print „\n\n“;

    $did=$file;
    $did=~s,^\/TR\/Data\/TR\/,,;
    $did=~s,\/,-,g;
    $did=~s,\.idx,,;

    $debug && print „did=$did\n\n“;
    $SOIF{„Document-ID“}=$did;

    $SOIF{„Semester“}=$sem if !$SOIF{„Semester“};
    if(!$SOIF{„Vers“}){
        if($stpe eq „SC“){
            $SOIF{„Vers“}=$sem;
        }
    }
    $SOIF{„Typ“}=$stpe if !$SOIF{„Typ“};
}

```

A Files

A.1 gatherer/bin/IDX.sum

```
#!/soft/local/bin/perl5

# Felder:
# Titel:                (mandatory)
# Keywords:             (mandatory)
# Autor:                (mandatory)
# Betreuer:             (mandatory)
# Semester:             (recommended)
# Vers:                 (recommended)
# Document:             (optional)
# Archive:              (optional)
# Document-ID:          (optional)
# Typ:                  (recommended)
#
# Abstract:             (mandatory)

$IDX="idx";# idx?
$debug = 0;
$ftpURL = „ftp://rfhs0003.fh.uni-regensburg.de“;

unshift(@INC, „$ENV{HARVEST_HOME}/lib“);      # use local files
require „soif.pl“;

#open(L, ">>/tmp/IDX.sum.log" ) ;
#print L „$0: „,@ARGV,“\n“;
#close(L);

$file = shift(@ARGV);
open(IN, „$file“) || die „IDX.sum: Cannot read $file.\n“;

while(<IN>){
    last if (/^\s*\n$/o);
    if( /^s+(.*)$/){
        # Continuation line
        $SOIF{„$what“}.=“ $1“;
    }
    if(/^Titel:\s+(.*)$/){      $what="Titel";      $SOIF{„$what“}=$1;
    }
    if(/^Keywords:\s+(.*)$/){  $what="Keywords";
        $SOIF{„$what“}=$1; }
    if(/^Autor:\s+(.*)$/){     $what="Autor";      $SOIF{„$what“}=$1;
    }
    if(/^Betreuer:\s+(.*)$/){  $what="Betreuer";
        $SOIF{„$what“}=$1; }
    if(/^Typ:\s+(.*)$/){       $what="Typ";        $SOIF{„$what“}=$1;
    }
    if(/^Semester:\s+(.*)$/){  $what="Semester";
        $SOIF{„$what“}=$1; }
    if(/^Version:\s+(.*)$/){   $what="Vers";      $SOIF{„$what“}=$1;
    }
    if(/^Document:\s+(.*)$/){  $what="Document";
        $SOIF{„$what“}=$1; }
    if(/^Archive:\s+(.*)$/){   $what="Archive";

```

4.2 BrokerQuery.pl.cgi

Tasks:

- accept fields from Form (query.html)
- form query to broker
- call the right BrokerQuery.cf for output-formatting

4.3 lib/BrokerQuery.cf

Changes:

- minor cosmetics
- make IDX-files accessible through calls to `idx2html.cgi`.

4.4 idx2html.cgi

Display given IDX-file and hilight the Dokument- and Archive-fields (if available) as hyperlinks.

See appendix for a full listing.

- ```
> <CR>
```
- Is this information correct? [yes]:  
> <CR>
  - Should I build this Broker now? [yes]:  
> <CR>
  - Would you like to add a collection point to the Broker now? [yes]:  
> <CR>
  - Enter the host from which to collect [rfhs0003]:  
> *rfhs0003.fh.uni-regensburg.de*
  - Enter the port from which to collect [8500]:  
> *8900*
  - Enter the collection type [3]:  
> *1*
  - Is this information correct? [yes]:  
> <CR>
  - Would you like to add a collection point to the Broker now? [no]:  
> <CR>

If the TR-related files should be stored unter /TR/Harvest, then /soft/Harvest-1.4pl1/brokers/TR has to be copied to /TR/Harvest/broker:

```
% rm -fr /TR/Harvest/broker
% cd /soft/Harvest-1.4pl1/brokers/TR
% mkdir -p /TR/Harvest/broker
% tar cf - . | (cd /TR/Harvest/broker ; tar vxf -)
% cd ..
% rm -fr TR
% ln -s /TR/Harvest/broker TR
```

- Directory: /TR/Harvest/broker/TR
- BrokerQuery.pl.cgi: copy from /soft/Harvest-1.4pl1/cgi-bin/BrokerQuery.pl.cgi and modify as described below.
- lib/BrokerQuery.cf: copy from /soft/Harvest-1.4pl1/cgi-bin/lib/BrokerQuery.cf and modify as rescribed below.

#### 4.1 Query-Form (query.html)

The following fields can be searched after checking them:

- |                                              |                 |
|----------------------------------------------|-----------------|
| • Titel (check)                              | -> search_titel |
| • Keywords (check)                           | -> search_kwds  |
| • Autor (check)                              | -> search_autor |
| • Betreuer (check)                           | -> search_betr  |
| • Document-ID (check)                        | -> search_docid |
| • Semester (check)                           | -> search_sem   |
| • Typ: multiple choice: DA, SC, REF, PR, any | -> search_typ   |
| • Fachbereich: IN, ... any                   | -> search_fb    |

See below for a full listing of the form.

### 3.3 Summarizers

- Directory: /TR/Harvest/gatherer/bin
- Abstract.sum:
 

```
#!/bin/sh
head -50 „$1“ | wrapit „Abstract“
```
- Empty.sum:
 

```
#!/bin/sh
```
- SymbolicLink.sum:
 

```
#!/bin/sh
```
- IDX.sum:
 

```
<too big, see appendix:->
```

## 4. Broker

- If there's only a ,summary.html' in /TR/Harvest/broker/TR, the broker must be re-created by running /soft/Harvest-1.4p11/bin/CreateBroker with the following parameters:
  - Enter a one-line descriptive name for your Broker [No\_Default]:
    - > *Technical Report Broker*
  - Enter a one-word name for your Broker [No\_Default]:
    - > *TR*
  - Enter the hostname on which the broker will run [rfhs0003]:
    - > *rfhs0003.fh.uni-regensburg.de*
  - Enter the port number on which the broker will run [8501]:
    - > *8901*
  - Enter the password to the broker administrative interface []:
    - > *geheim*
  - Enter the hostname for your HTTP server. If you want to use a different port number than 80, append it to the hostname with a colon (e.g., www.cs.colorado.edu:9000) [rfhs0003]:
    - > *rfhs0003.fh.uni-regensburg.de*
  - Enter your email address [feyrer@rfhs0003]:
    - > *hubert.feyrer@rz.uni-regensburg.de*
  - Enter the name of the attribute that will be displayed to the user as one-line object description in search results [description]:
    - > *<CR>*
  - Do you want to use Glimpse or WAIS as an Indexer [glimpse]:
    - > *glimpse*
  - Enter the pathname to the glimpse command [/soft/Harvest-1.4p11/lib/broker/glimpse]:
    - > *<CR>*
  - Enter the pathname to the glimpseindex command [/soft/Harvest-1.4p11/lib/broker/glimpseindex]:
    - > *<CR>*
  - Enter the pathname to the glimpseserver command [/soft/Harvest-1.4p11/lib/broker/glimpserver]:
    - > *<CR>*
  - Enter the host on which to run glimpseserver [rfhs0003]:
    - > *rfhs0003.fh.uni-regensburg.de*
  - Enter the destination Broker directory [/soft/Harvest-1.4p11/brokers/TR]:

**ACHTUNG!!!** Der Server läuft noch nicht, darum ist dieses Dokument auch noch nicht 100% fertig. Unter <http://rfhs0003.fh.uni-regensburg.de/Harvest/brokers/TR/summary.html> kann das bisherige Ergebnis betrachtet werden. aber Vorsicht: Baustelle! Der TR-Broker basiert auf einem Broker, der den NetBSD/amiga-Teil des Regensburger FTP-Servers indiziert und unter <http://rfhs0003.fh.uni-regensburg.de/Harvest/brokers/netbsd/query.html> zugänglich ist.

# Setup of the Harvest Brokers for the Technical Report Server of the FH Regensburg

Hubert Feyrer, 6.3.1996

## 1. Preparation

- `mkdir -p /TR/Harvest/gatherer`
- `mkdir -p /TR/Harvest/broker`
- `ln -s /TR/Harvest/gatherer /soft/Harvest-1.4pl1/gatherers/TR`
- `ln -s /TR/Harvest/brokers /soft/Harvest-1.4pl1/brokers/TR`

## 2. RunHarvest

- Path of gatherer: `/soft/Harvest-1.4pl2/gatherers/TR`
- Port of gatherer: `8900`
- Path of broker: `/soft/Harvest-1.4pl2/brokers/TR`
- Port of broker: `8901`

## 3. Gatherer

### 3.1 Specify workload

- Directory: `/TR/Harvest/gatherer`
- TR.cf:

```
<RootNodes>
file://localhost/TR/Data/TR/ URL=99999999,TR-files
</RootNodes>
```
- TR-files:

```
Allow \.idx
Deny .*
```

### 3.2 Customize type recognition

- Directory: `/TR/Harvest/gatherer/lib`
- `cp /dev/null bycontent.cf`
- `cp /dev/null byname.cf`
- byurl.cf:

```
IDX ^.*\.idx$
```
- `cp /dev/null quick-sum.cf`
- stoplist.cf:

```
Unknown
```