

 Itanium rx2620 only supports USB1.1, which has a very slow transfer rate

1 Identify the USB device ID

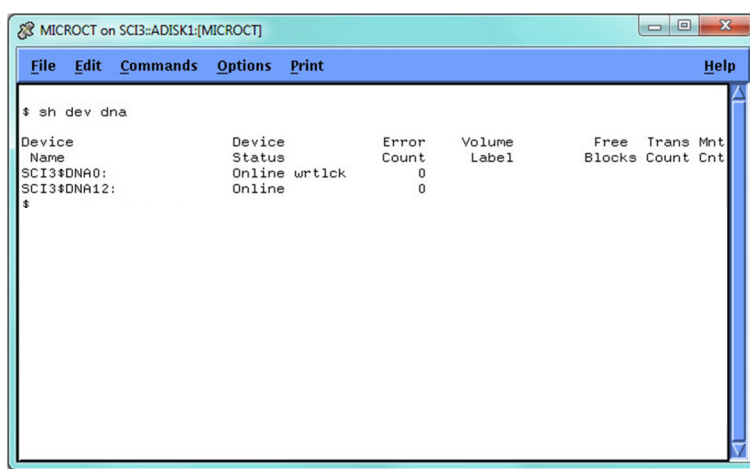
Each USB device attached to an Itanium workstation will get its own device ID in the form of DNAX, where x is an increasing number for each newly attached device.

OpenVMS remembers all previously attached device IDs. The list can be show with:

```
$ show device dna
```

Currently attached devices will be shown as "online", previously attached may be shown as "offline".

To figure out the correct ID of your USB device, it is recommended to run this command once before attaching the device and once after it has been attached. The newly added DNA ID which is then shown as "online" would be your USB device ID.



2 Archive/Export to OpenVMS file system (Files-11)

2.1 Archive/Copy Measurement Data

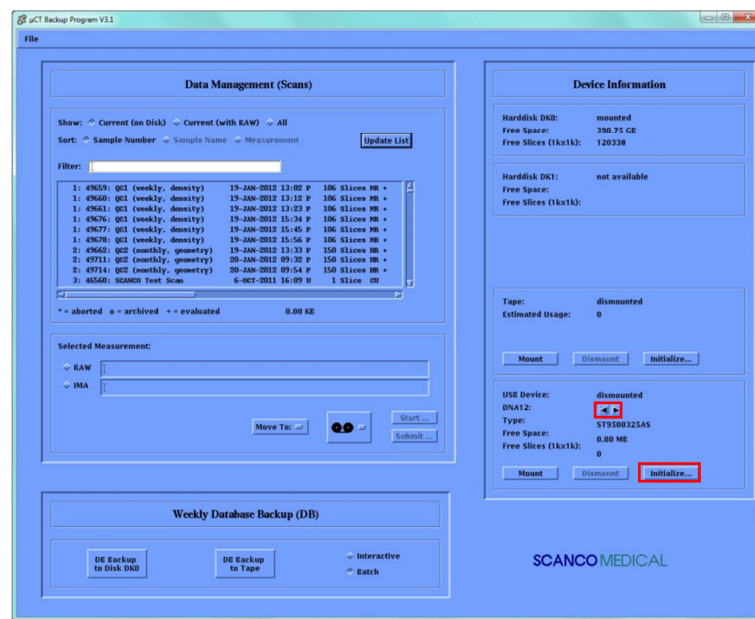
2.1.1 Initialize procedure

A new USB device must first be initialized (formatted) by OpenVMS to create an Files-11 file volume.

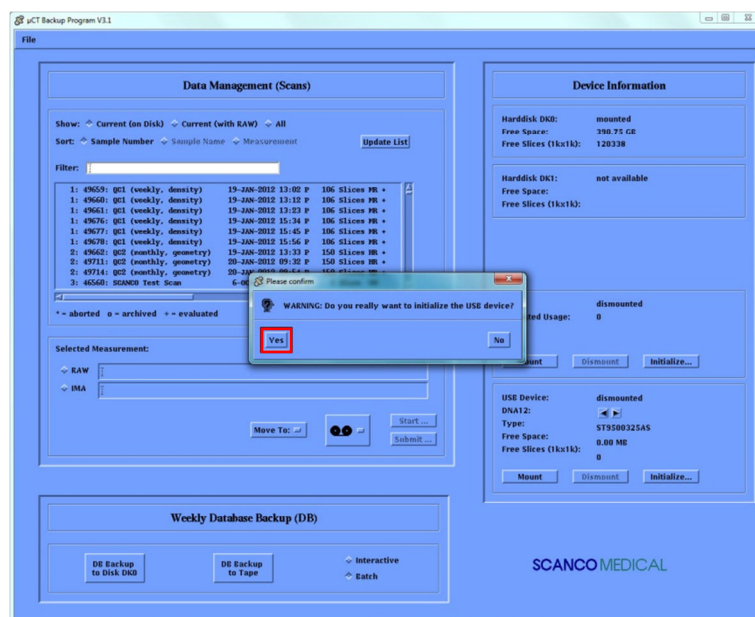
Any data on the device will be erased by this process!

An OpenVMS-formatted USB device will not be readable from any other operating system!

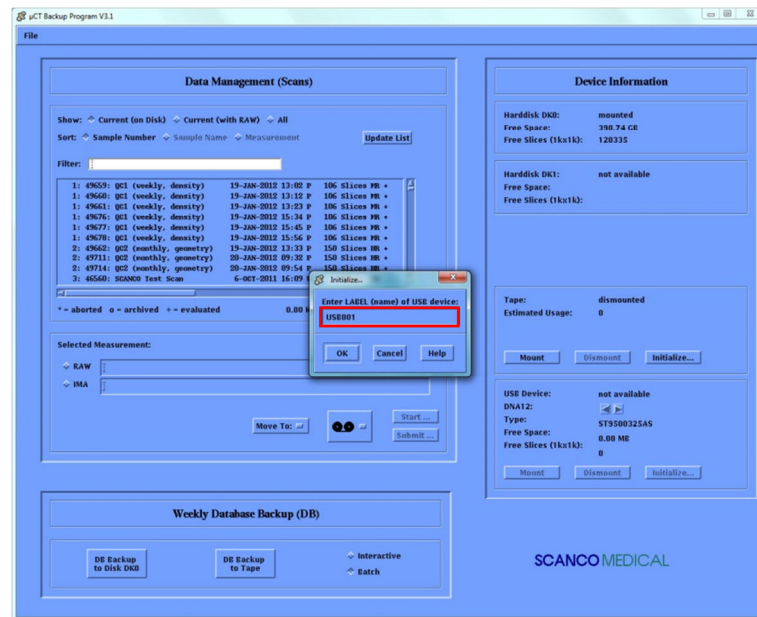
- Attach the USB device to the front USB port of the Itanium.
- Identify its DNAX ID (see chapter 1), DNA12 in this example.
- Open the Scanco backup/archive software.
- Select the correct USB device ID with the arrow buttons in the “USB Device” section.
- Click the “Initialize...” button in the “USB Device” section.



- Confirm the Warning message. **All data currently on the device will be erased!**



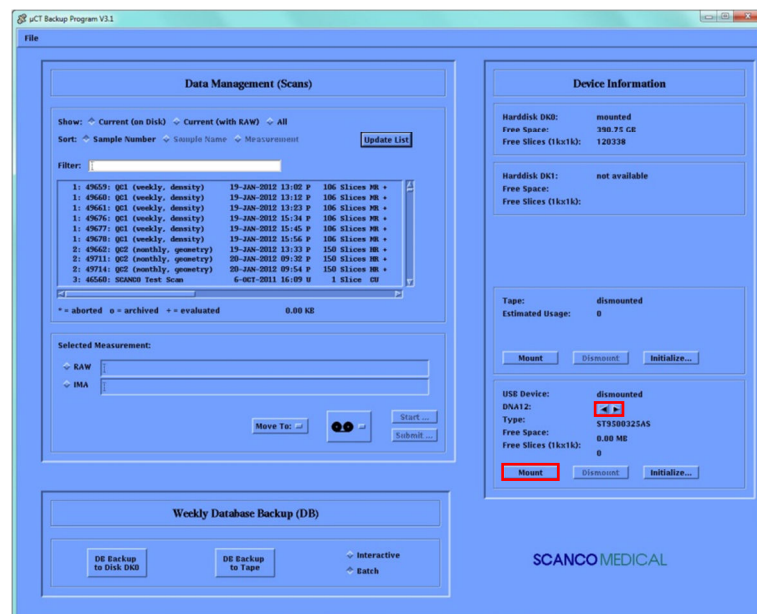
- Enter a meaningful **6-characters** label



The USB device will be initialized and automatically mounted.

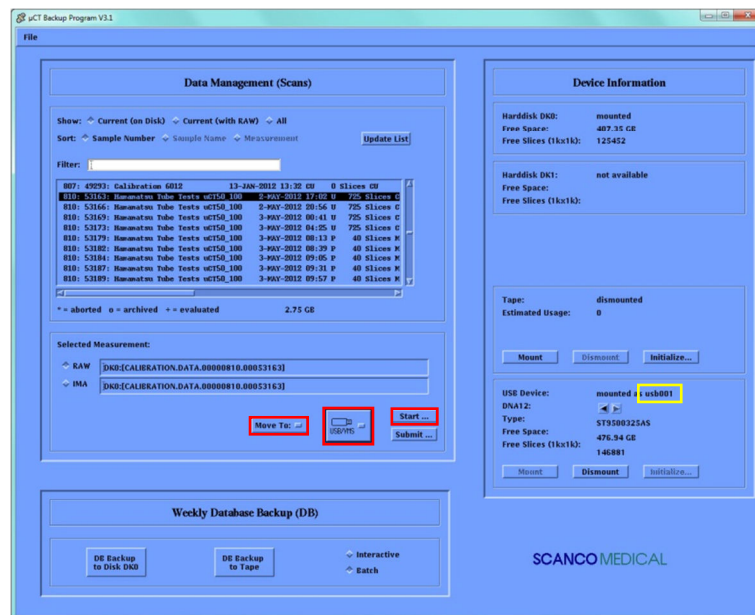
2.2 Archive procedure

- Attach an OpenVMS-formatted USB device to the front USB port of the Itanium.
- Identify its DNAx ID (see chapter 1), DNA12 in this example.
- Open the Scanco backup/archive software.
- Select the correct USB device with the arrow buttons in the “USB Device” section.
- Click the “Mount” button in the “USB Device” section to mount the USB device.



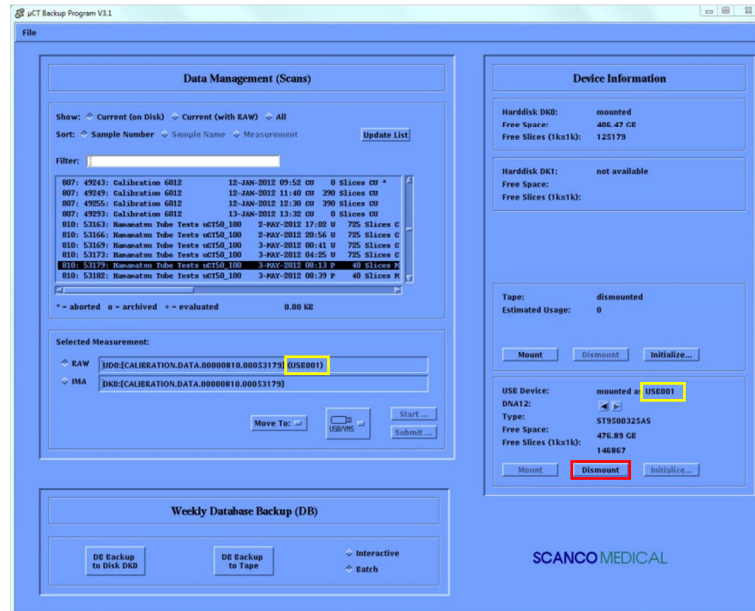
The device label of the mounted USB device will be shown in the “USB Device” section.

- Select the measurement data to be archived.
- Select “Move To:” (to archive) or “Copy To:” (to make a copy only)
- Select “USB/VMS”
- Click the “Start ...” button



After a move procedure, the new current location of the measurement data will be shown next to the files path.

- “Dismount” the USB device when done with archiving



2.3 Manual file copy procedure

An OpenVMS-formatted USB device can also be mounted and used for file storage using commands in a DECterm.

- Attach an OpenVMS-formatted USB device to the front USB port of the Itanium (see chapter 2.1.1).
- Identify its DNAX ID (see chapter 1), DNA12 in this example.
- Mount the USB device using the correct device name

```
$ mount /over=id dna12
```

- Create a root directory. Ignore any messages if the directory already exists.

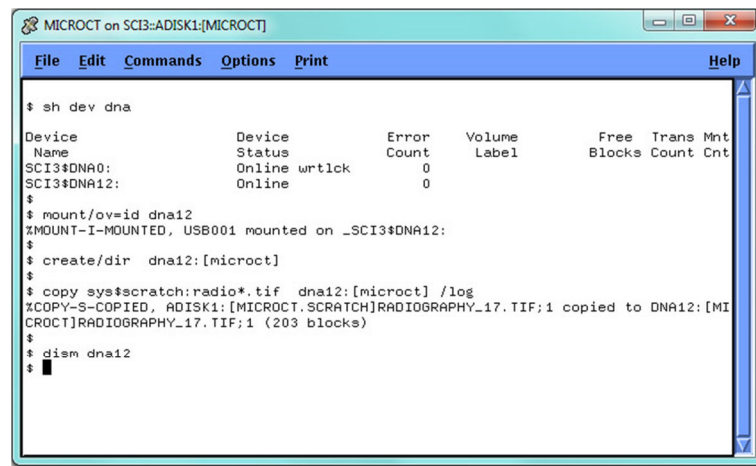
```
$ create /dir dna12:[microct]
```

- Copy files to the USB device

```
$ copy {source files} dna12:[microct] /log
```

- Dismount the USB device

```
$ dismount dna12
```



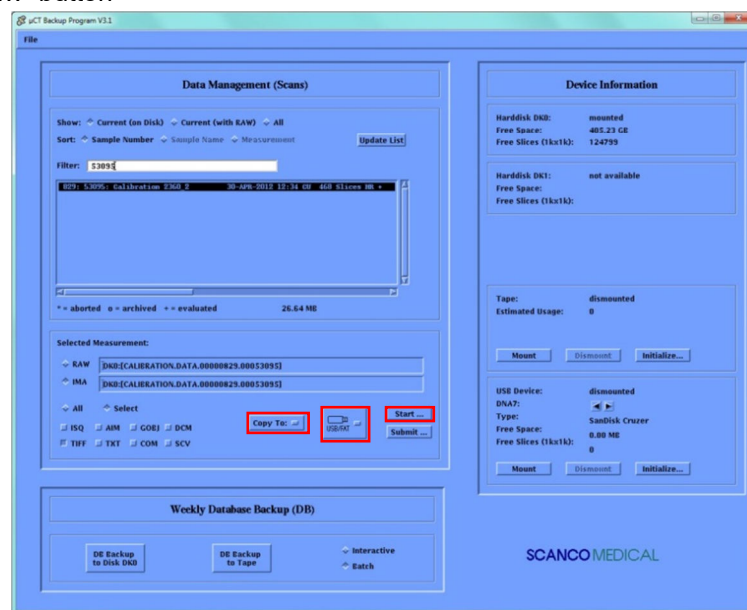
3 Export to Windows or MAC OS system (FAT32)

3.1 Export Measurement Data

If an external USB device is to be used to export measurement data to a Windows or MAC OS, the USB device must be formatted in **FAT32 file system**.

Hint: FAT32 maximum file size is 4GB.

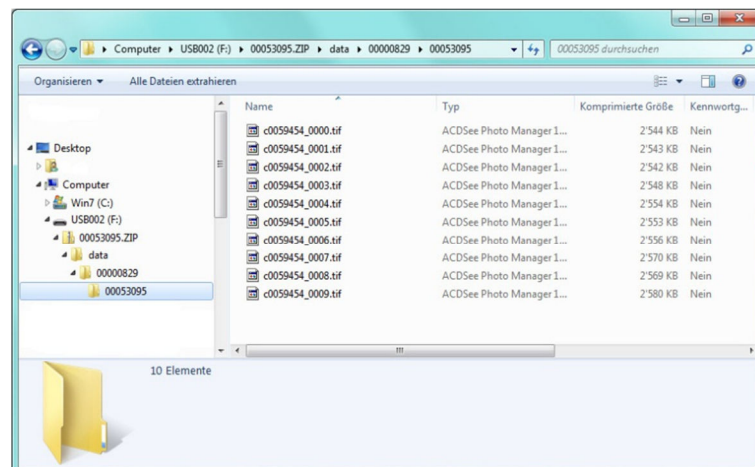
- Attach a FAT32-formatted USB device to the front USB port of the Itanium.
- Identify its DNAX ID (see chapter 1), DNA7 in this example.
- Open the Scanco backup/archive software.
- **Do not “Initialize...” or “Mount” the USB device !**
- Select “Copy To:” and “USB/FAT”
- Select the measurement to be copied to the USB device. All data can be copied, or only selected file types (TIFF files in the example below).
- Click the “Start ...” button



Once the USB device is connected to a Windows PC or MAC OS, you will find a ZIP file, named after the copied measurement number. This ZIP file contains the same directory structure as the data disk on OpenVMS:

- data
 - sample number
 - measurement number

The lowest sub-directory contains the copied files, as selected in the backup/archive software (TIF files in this example).



3.2 Export any other files

The export procedure using the backup/archive software (see chapter 3.1) can only handle files located in the measurement directories.

Files located anywhere else, e.g. in the scratch directory, are not accessible through the backup/archive software. These can be exported using the terminal-based software `$ pc_export`.

- Attach a FAT32-formatted USB device to the front USB port of the Itanium.
- Identify its DNAX ID (see chapter 1), DNA7 in this example.
- Open the backup/archive software once, and close it again (this will enable the usage of the USB device)
- Use the terminal based software in the form of

```
$ pc_export {source files} usbfat
```

For example, to copy all Tif files named "myproject*.tif" from the scratch directory to a FAT32-formatted USB device:

```
$ pc_export sys$scratch:myproject*.tif usbfat
```

```
USB-Device (DNAXx:): dna7
```

```
Is the output device (CDR/DVR/USB) ready (Y/N): y
```

3.3 Formatting to FAT32 on OpenVMS

Some USB drives won't work if formatted to FAT32 on Windows. A "device is not mounted" error message may pop up. In this case, try formatting the drive to FAT32 on OpenVMS:

```
$ @ut:scanco_pc_utilities_setup
```

```
$ winfx
```

```
winfx> use a: dna11:
```

```
winfx> format a: /label=mystick
```

```
winfx> partition dna11: /par1=FAT32:100%
```

```
winfx> exit
```