

## Callable Grouper Products for UNIX

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### 1. HOW TO PICK A VERSION

US Federal (aka CMS or HCFA) DRG versions are released in October of every year. Version 3 (the first version we support) was released in October of 1985. So if you are using calendar years, 1/1/2001 - 9/30/2001 would be covered by version 18 and 10/1/2001 through 9/30/2002 would be covered by version 19. And so on.

### 2. PRODUCTS & PRICES

Product	Description	Price	Buy
<b>UNIX Programmer Tools</b> (prices are for in-house use only; other licenses are negotiable)			
<b>32 bit Linux Perl-callable shared object</b>	N/A	<b>\$250</b>	N/A
<b>64 bit Linux Perl-callable shared object</b>	N/A	<b>\$250</b>	N/A
<b>PHP-callable shared object</b>	N/A	<b>\$250</b>	N/A
<b>PHP-callable shared object</b>	N/A	<b>\$250</b>	N/A
<b>C-callable shared object</b>	N/A	<b>\$250</b>	N/A
<b>C-callable shared object</b>	N/A	<b>\$250</b>	N/A
<b>ICL Upgrade</b>	N/A	<b>\$500</b>	N/A
N/A			
<b>Miscellaneous</b>			
<b>DRG Masks file</b>	N/A	<b>\$100</b>	N/A
<b>ICD9cm short file</b>	<b>34 character descriptions for ICD9cm codes</b>	<b>\$25</b>	N/A
N/A			

### 3. SUPPORTED PLATFORMS

In the non-Microsoft realm, we run GNU-Linux of the following varieties in-house: Slackware, Red Hat and Debian. We also run FreeBSD in-house.

In order to support non-Linux UNIXoid operating systems, we rent time from a porting lab which allows us port our software to many different platforms.

### 4. CALLABLE GROUPER API

All of our UNIX program-callable groupers share a single Application Program Interface (API). For Perl and PHP, all the parameters are strings. For C and C++, the last two parameters are short integers. In all cases, all the outputs are strings.

1. DRG version number
  2. Path to the masks file or files
  3. Discharge disposition
  4. Patient age on admission
  5. Patient sex (1=male, 2=female)
  6. String of contiguous, left-justified, blank-padded ICD9cm DX codes
  7. String of contiguous, left-justified, blank-padded ICD9cm Surgery (aka Procedure) codes
  8. Length of each ICD9cm DX code
  9. Length of each ICD9cm Surgery (aka Procedure) code
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1. Grouper Return Code (what error, if any, arose during grouping)
  2. Major Diagnostic Category of assigned DRG
  3. DRG assigned to this patient encounter
  4. DRG version number used to assign this DRG
  5. The Weight of this DRG (a normalized prediction of resource consumption)
  6. The Geometric Mean Length-of-stay for this DRG
  7. PorM flag: P if this is a "procedure" or "surgery" DRG, M if a "medical" DRG
  8. DRG Description: the official name of this DRG

### 5. PERL SHARED OBJECT

Through the magic of SWIG , a wrapper-generator, we are able to access our C-callable object through Perl on many platforms. You install the shared object in the appropriate location, you 'use' our mhdrp.pm package and voila! you can assign DRGs in a Perl script. Thanks to the DBI package for accessing databases and Perl's many powerful features for handling text or parsing binary data, our module makes assigning DRGs to records in databases or in export files rather easy. [Click here](#) to see a sample Perl script that calls our grouper.

### 6. PHP SHARED OBJECT

SWIG (see above) also allows us to create a PHP module which assigns DRGs so that you, in turn, can add DRG assignment to your PHP applications. [Click here](#) to see a sample PHP document that calls our grouper.

### 7. LINUX C-CALLABLE SHARED OBJECT

We also have a shared object that runs under most x86 Linux distributions and can be used with C programs such as the SAS environment.

## 8. C-CALLABLE OBJECT

Our grouper is an ANSI C program which can be compiled by almost any valid ANSI C compiler. We have compiled our grouper under every one of our supported platforms with little or no modification. Click here to see a sample ANSI C program that calls our grouper.

## 9. ICL ENVIRONMENT UPGRADE

Our parent company, M+H Consulting , has its very own 4th Generation Language (4GL), as part of a Rapid Application Development (RAD) environment. That ALGOL-style, line-oriented, block-structured language is called Interactive Computer Language, or ICL. Naturally, ICL has an embedded grouper in it, which needs to be updated every year. Our clients who have ICL applications and who want current grouping buy this upgrade.

## 10. RESELLER LICENSE

If you want to embed our grouper in a product you will be selling on the market, then you need to negotiate a custom license agreement. Please contact us for details.

## 11. MAY WE TAKE YOUR ORDER? <!-- {NO-SEARCH} -->

As of October, 2009, we have a shiny new on-line shopping cart. We **strongly** recommend that you use it, if you can. You can use the shopping cart by clicking on the big blue buttons above.

If you use the on-line shopping cart, you get your software immediately and directly.

If you do not use the shopping cart, your order will have to be filled manually, which takes time, and will be emailed to you, which often leads to interference by spam filters and firewalls.

You can use the on-line shopping cart if you have a company credit card; we use Paypal to process on-line purchases, but Paypay does **not** require you to have or use a Paypal account.

If your company works on a purchase order basis, you may want to **fax us a purchase order to (203) 481-4898**, containing the same product information as the form below. If you would like to order on-line, but are sure that you cannot use our on-line shopping cart, please fill in the form below and submit it.

*(If you are reading the PDF version of this document, then please consider copying the form and pasting it into a email or printing it out and faxing it or mailing it.)*

>>table border="0" cellpadding="3" cellspacing="3">><!-- table to format actual order form -->><tr><th colspan="2">Grouper Product Order Form	
<i>All fields are required</i>	
Your Name	
Address	_____
City	_____
State	___
ZIP Code	_____
Email	_____
PO Number	_____

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Callable Grouper Products for UNIX

Product	CGI-DRG DRGFilt VB-DRG Access-DRG Excel-DRG MHDRG VB DLL MHDRG C DLL MHICD VB DLL MHICD C DLL ICL Upgrade SA-DRG C Object Perl Object PHP Object Masks File ICD9cm Short ICD9cm Long >
System	DOS/Win 3.x/Win 9x Win 2000/NT/XP GNU-Linux (Slackware, Red Hat) FreeBSD Other UNIX (see list)
Version	—
Quantity	—

If you don't get an email acknowledgement from us within 2 business days, there may have been some technical problem so please let us know at grouper@drngroupers.com . <!-- { search } -->