Update Unicode data to Unicode Version 13.0.0

The newest version of Unicode is Unicode 13.0.0 since about one year (see [http://www.unicode.org/versions/Unicode13.0.0/](http://www.unicode.org/versions/Unicode13.0.0/)). We should finally update Ruby to use Unicode 13.0.0, and probably also backport the result to Ruby 3.0. This issue serves as the main issue for this update; if necessary, I'll create sub-issues.

Currently, I don't expect any major issues (stuff that would require rewriting code) for this upgrade, but I'll check again carefully.

One problem I know of is that Unicode changed the structure of their directories somewhat. This may affect the Ruby makefile infrastructure.

Details about moving files (see [https://www.unicode.org/Public/13.0.0/ucd/emoji/ReadMe.txt](https://www.unicode.org/Public/13.0.0/ucd/emoji/ReadMe.txt)):

The two files emoji-data.txt and emoji-variation-sequences.txt move from https://www.unicode.org/Public/emoji/12.1/ in Emoji version 12.1 to https://www.unicode.org/Public/13.0.0/ucd/emoji/ in Unicode Version 13.0.0.

We will reflect this in also changing the location of the files when building Ruby.

To get all the files, use

```bash
$> make update-unicode
```

In some cases, it will be necessary to temporarily uncomment the following line in common.mk:

```make
# ALWAYS_UPDATE_UNICODE = yes
```

Related to Feature #14802: Update Unicode data to Unicode Version 11.0.0

Related to Bug #18028: test/ruby/enc/test_emoji_breaks.rb does not deal with Unicode ranges in file emoji-sequences.txt

Related to Bug #18027: test/ruby/enc/test_emoji_breaks.rb does not use the file emoji-variation-sequences.txt

Related to Feature #18029: Update Unicode Emoji version to 13.1

Related to Bug #18022: Spec errors for rbconfig/unicode_[emoji_\version_spec]: Using Ruby 2.7 even when on Ruby 3.1

Related to Feature #15321: Update Unicode data to Unicode Version 13.1

Blocked by Bug #18028: test/ruby/enc/test_emoji_breaks.rb does not deal with Unicode ranges in file emoji-sequences.txt

Blocked by Bug #18027: test/ruby/enc/test_emoji_breaks.rb does not use the file emoji-variation-sequences.txt

Blocked by Feature #18029: Update Unicode Emoji version to 13.1

Blocked by Bug #18022: Spec errors for rbconfig/unicode_[emoji_\version_spec]: Using Ruby 2.7 even when on Ruby 3.1
- Related to Feature #18037: Update Unicode data to Unicode Version 14.0.0 added

#8 - 08/17/2021 08:15 AM - duerst (Martin Dürst)
- Status changed from Open to Closed

Closed (finally) with revision 21d83a823.

#9 - 03/11/2022 08:07 AM - duerst (Martin Dürst)
- Related to Feature #15321: Update Unicode data to Unicode Version 12.0.0 added