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*****
13278 Thu Jul 28 06:11:58 2011
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```
new/src/cpu/zero/vm/frame_zero.cpp
```

```
*****
```

```
1 /*
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19 *
20 * Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
21 * or visit www.oracle.com if you need additional information or have any
22 * questions.
23 *
24 */
```

```
26 #include "precompiled.hpp"
27 #include "code/scopeDesc.hpp"
28 #include "interpreter/interpreter.hpp"
29 #include "interpreter/interpreterRuntime.hpp"
30 #include "memory/resourceArea.hpp"
31 #include "oops/markOop.hpp"
32 #include "oops/methodOop.hpp"
33 #include "oops/oop.inline.hpp"
34 #include "runtime/frame.inline.hpp"
35 #include "runtime/handles.inline.hpp"
36 #include "runtime/javaCalls.hpp"
37 #include "runtime/monitorChunk.hpp"
38 #include "runtime/signature.hpp"
39 #include "runtime/stubCodeGenerator.hpp"
40 #include "runtime/stubRoutines.hpp"
41 #include "vmreg_zero.inline.hpp"
42 #ifdef COMPILER1
43 #include "cl/cl_Runtime1.hpp"
44 #include "runtime/vframeArray.hpp"
45 #endif
```

```
47 #ifdef ASSERT
48 void RegisterMap::check_location_valid() {
49     ShouldNotCallThis();
50 }
```

```
    unchanged_portion_omitted
```

```
421 #ifdef ASSERT
```

```
423 void frame::describe_pd(FrameValues& values, int frame_no) {
```

```
425 }
```

```
427 #endif
```

```
428 #endif /* ! codereview */
```

```

*****
3130 Thu Jul 28 06:11:59 2011
new/src/cpu/zero/vm/methodHandles_zero.hpp
*****
1 /*
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18 * Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.
19 *
20 * Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
21 * or visit www.oracle.com if you need additional information or have any
22 * questions.
23 *
24 */

27 // Adapters
28 enum /* platform_dependent_constants */ {
29     adapter_code_size = 0
30 };

32 #define TARGET_ARCH_NYI_6939861 1
33 // ..#ifndef TARGET_ARCH_NYI_6939861
34 // .. // Here are some backward compatible declarations until the 6939861 ports
35 // .. #define _adapter_flyby (_EK_LIMIT + 10)
36 // .. #define _adapter_ricochet (_EK_LIMIT + 11)
37 // .. #define _adapter_opt_spread_l _adapter_opt_spread_l_ref
38 // .. #define _adapter_opt_spread_more _adapter_opt_spread_ref
39 // .. enum {
40 // ..     _INSERT_NO_MASK = -1,
41 // ..     _INSERT_REF_MASK = 0,
42 // ..     _INSERT_INT_MASK = 1,
43 // ..     _INSERT_LONG_MASK = 3
44 // .. };
45 // .. static void get_ek_bound_mh_info(EntryKind ek, BasicType& arg_type, int&
46 // ..     arg_type = ek_bound_mh_arg_type(ek);
47 // ..     arg_mask = 0;
48 // ..     arg_slots = type2size[arg_type];;
49 // .. }
50 // .. static void get_ek_adapter_opt_swap_rot_info(EntryKind ek, int& swap_byte
51 // ..     int swap_slots = ek_adapter_opt_swap_slots(ek);
52 // ..     rotate = ek_adapter_opt_swap_mode(ek);
53 // ..     swap_bytes = swap_slots * Interpreter::stackElementSize;
54 // .. }
55 // .. static int get_ek_adapter_opt_spread_info(EntryKind ek) {
56 // ..     return ek_adapter_opt_spread_count(ek);
57 // .. }
58 // ..
59 // .. static void insert_arg_slots(MacroAssembler* _masm,
60 // ..     RegisterOrConstant arg_slots,
61 // ..     int arg_mask,
62 // ..     Register argslot_reg,

```

```

63 // ..     Register temp_reg, Register temp2_reg, Regis
64 // ..
65 // .. static void remove_arg_slots(MacroAssembler* _masm,
66 // ..     RegisterOrConstant arg_slots,
67 // ..     Register argslot_reg,
68 // ..     Register temp_reg, Register temp2_reg, Regis
69 // ..
70 // .. static void trace_method_handle(MacroAssembler* _masm, const char* adapte
71 // .. #endif //TARGET_ARCH_NYI_6939861

73 #endif /* ! codereview */

```

```

*****
4756 Thu Jul 28 06:12:00 2011
new/src/cpu/zero/vm/sharedRuntime_zero.cpp
*****
1 /*
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18 * Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.
19 *
20 * Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
21 * or visit www.oracle.com if you need additional information or have any
22 * questions.
23 *
24 */

26 #include "precompiled.hpp"
27 #include "asm/assembler.hpp"
28 #include "assembler_zero.inline.hpp"
29 #include "code/debugInfoRec.hpp"
30 #include "code/icBuffer.hpp"
31 #include "code/vtableStubs.hpp"
32 #include "interpreter/interpreter.hpp"
33 #include "oops/compiledICHolderOop.hpp"
34 #include "prims/jvmtiRedefineClassesTrace.hpp"
35 #include "runtime/sharedRuntime.hpp"
36 #include "runtime/vframeArray.hpp"
37 #include "vmreg_zero.inline.hpp"
38 #ifdef COMPILER1
39 #include "c1/c1_Runtime1.hpp"
40 #endif
41 #ifdef COMPILER2
42 #include "opto/runtime.hpp"
43 #endif
44 #ifdef SHARK
45 #include "compiler/compileBroker.hpp"
46 #include "shark/sharkCompiler.hpp"
47 #endif

49 DeoptimizationBlob *SharedRuntime::_deopt_blob;
50 SafepointBlob *SharedRuntime::_polling_page_safepoint_handler_blob;
51 SafepointBlob *SharedRuntime::_polling_page_return_handler_blob;
52 RuntimeStub *SharedRuntime::_wrong_method_blob;
53 RuntimeStub *SharedRuntime::_ic_miss_blob;
54 RuntimeStub *SharedRuntime::_resolve_opt_virtual_call_blob;
55 RuntimeStub *SharedRuntime::_resolve_virtual_call_blob;
56 RuntimeStub *SharedRuntime::_resolve_static_call_blob;

50 int SharedRuntime::java_calling_convention(const BasicType *sig_bt,
51                                           VMRegPair *regs,
52                                           int total_args_passed,
53                                           int is_outgoing) {
54     return 0;

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55 }
    unchanged_portion_omitted_

109 static DeoptimizationBlob* generate_empty_deopt_blob() {
110     CodeBuffer buffer("handler_blob", 0, 0);
111     return DeoptimizationBlob::create(&buffer, NULL, 0, 0, 0, 0);
112 }

115 void SharedRuntime::generate_deopt_blob() {
116     _deopt_blob = generate_empty_deopt_blob();
117 }

119 SafepointBlob* SharedRuntime::generate_handler_blob(address call_ptr, bool cause
120     return generate_empty_safepoint_blob();
121 }

123 RuntimeStub* SharedRuntime::generate_resolve_blob(address destination, const cha
124     return generate_empty_runtime_stub("resolve_blob");
125 void SharedRuntime::generate_stubs() {
126     _wrong_method_blob =
127         generate_empty_runtime_stub("wrong_method_stub");
128     _ic_miss_blob =
129         generate_empty_runtime_stub("ic_miss_stub");
130     _resolve_opt_virtual_call_blob =
131         generate_empty_runtime_stub("resolve_opt_virtual_call");
132     _resolve_virtual_call_blob =
133         generate_empty_runtime_stub("resolve_virtual_call");
134     _resolve_static_call_blob =
135         generate_empty_runtime_stub("resolve_static_call");

129     _polling_page_safepoint_handler_blob =
130         generate_empty_safepoint_blob();
131     _polling_page_return_handler_blob =
132         generate_empty_safepoint_blob();
125 }
    unchanged_portion_omitted_

```

```

*****
5743 Thu Jul 28 06:12:01 2011
new/src/share/vm/shark/sharkContext.hpp
*****
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13 * version 2 for more details (a copy is included in the LICENSE file that
14 * accompanied this code).
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17 * 2 along with this work; if not, write to the Free Software Foundation,
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19 *
20 * Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
21 * or visit www.oracle.com if you need additional information or have any
22 * questions.
23 *
24 */

26 #ifndef SHARE_VM_SHARK_SHARKCONTEXT_HPP
27 #define SHARE_VM_SHARK_SHARKCONTEXT_HPP

29 #include "shark/llvmHeaders.hpp"
30 #include "shark/sharkCompiler.hpp"

32 // The LLVMContext class allows multiple instances of LLVM to operate
33 // independently of each other in a multithreaded context. We extend
34 // this here to store things in Shark that are LLVMContext-specific.

36 class SharkFreeQueueItem;

38 class SharkContext : public llvm::LLVMContext {
39 public:
40     SharkContext(const char* name);

42 private:
43     llvm::Module* _module;

45 #if SHARK_LLVM_VERSION >= 27
46 public:
47 #else
48 private:
49 #endif
50     llvm::Module* module() const {
51         return _module;
52     }

54     // Get this thread's SharkContext
55 public:
56     static SharkContext& current() {
57         return *SharkCompiler::compiler()->context();
58     }

60     // Module accessors
61 public:
62 #if SHARK_LLVM_VERSION < 27

```

```

63     llvm::ModuleProvider* module_provider() const {
64         return new llvm::ExistingModuleProvider(module());
65     }
66 #endif
67 void add_function(llvm::Function* function) const {
68     module()->getFunctionList().push_back(function);
69 }
70 llvm::Constant* get_external(const char* name,
71                               const llvm::FunctionType* sig) {
72     return module()->getOrInsertFunction(name, sig);
73 }

75 // Basic types
76 private:
77     const llvm::Type* _void_type;
78     const llvm::IntegerType* _bit_type;
79     const llvm::IntegerType* _jbyte_type;
80     const llvm::IntegerType* _jshort_type;
81     const llvm::IntegerType* _jint_type;
82     const llvm::IntegerType* _jlong_type;
83     const llvm::Type* _jfloat_type;
84     const llvm::Type* _jdouble_type;

86 public:
87     const llvm::Type* void_type() const {
88         return _void_type;
89     }
90     const llvm::IntegerType* bit_type() const {
91         return _bit_type;
92     }
93     const llvm::IntegerType* jbyte_type() const {
94         return _jbyte_type;
95     }
96     const llvm::IntegerType* jshort_type() const {
97         return _jshort_type;
98     }
99     const llvm::IntegerType* jint_type() const {
100         return _jint_type;
101     }
102     const llvm::IntegerType* jlong_type() const {
103         return _jlong_type;
104     }
105     const llvm::Type* jfloat_type() const {
106         return _jfloat_type;
107     }
108     const llvm::Type* jdouble_type() const {
109         return _jdouble_type;
110     }
111     const llvm::IntegerType* intptr_type() const {
112         return LP64_ONLY(jlong_type()) NOT_LP64(jint_type());
113     }

115     // Compound types
116 private:
117     const llvm::PointerType* _itableOffsetEntry_type;
118     const llvm::PointerType* _jniEnv_type;
119     const llvm::PointerType* _jniHandleBlock_type;
120     const llvm::PointerType* _klass_type;
121     const llvm::PointerType* _methodOop_type;
122     const llvm::ArrayType* _monitor_type;
123     const llvm::PointerType* _oop_type;
124     const llvm::PointerType* _thread_type;
125     const llvm::PointerType* _zeroStack_type;
126     const llvm::FunctionType* _entry_point_type;
127     const llvm::FunctionType* _osr_entry_point_type;

```

```

129 public:
130     const llvm::PointerType* itableOffsetEntry_type() const {
131         return _itableOffsetEntry_type;
132     }
133     const llvm::PointerType* jniEnv_type() const {
134         return _jniEnv_type;
135     }
136     const llvm::PointerType* jniHandleBlock_type() const {
137         return _jniHandleBlock_type;
138     }
139     const llvm::PointerType* klass_type() const {
140         return _klass_type;
141     }
142     const llvm::PointerType* methodOop_type() const {
143         return _methodOop_type;
144     }
145     const llvm::ArrayType* monitor_type() const {
146         return _monitor_type;
147     }
148     const llvm::PointerType* oop_type() const {
149         return _oop_type;
150     }
151     const llvm::PointerType* thread_type() const {
152         return _thread_type;
153     }
154     const llvm::PointerType* zeroStack_type() const {
155         return _zeroStack_type;
156     }
157     const llvm::FunctionType* entry_point_type() const {
158         return _entry_point_type;
159     }
160     const llvm::FunctionType* osr_entry_point_type() const {
161         return _osr_entry_point_type;
162     }
163
164     // Mappings
165     private:
166     const llvm::Type* _to_stackType[T_CONFLICT];
167     const llvm::Type* _to_arrayType[T_CONFLICT];
168
169     private:
170     const llvm::Type* map_type(const llvm::Type* const* table,
171                               BasicType type) const {
172         assert(type >= 0 && type < T_CONFLICT, "unhandled type");
173         const llvm::Type* result = table[table];
174         assert(result != NULL, "unhandled type");
174         assert(type != NULL, "unhandled type");
175         return result;
176     }
177
178     public:
179     const llvm::Type* to_stackType(BasicType type) const {
180         return map_type(_to_stackType, type);
181     }
182     const llvm::Type* to_arrayType(BasicType type) const {
183         return map_type(_to_arrayType, type);
184     }
185
186     // Functions queued for freeing
187     private:
188     SharkFreeQueueItem* _free_queue;
189
190     public:
191     void push_to_free_queue(llvm::Function* function);
192     llvm::Function* pop_from_free_queue();
193 };

```

unchanged portion omitted