0-SCore

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Introduction

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Software Overview

0-SCore is a modding library that was built for the 7 Days To Die modding community to enhance and add to the game's vanilla functionality.

Built over several years, and is still under active development, it's goal is to expand functionality and features.

Working with modders, we generate solutions which will meet their needs, and freely provide it to the community to use as they want.

This mod is not EAC Safe.

This mod needs to be installed on Clients and Servers to work.

0-SCore is hosted on Github, https://github.com/SphereII/SphereII.Mods, along with other mods.

Regular releases can be found here: https://github.com/SphereII/SphereII.Mods/releases/

Notes About Notes:

If you see a Notes entry, this information is coming from the release notes.

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Other Mods

Other Mods are available at the main github hosting site.

Bloom's Family Farming

- This modlet turns on features in the 0-SCore related to farming, including water requirements for plants, and working pipes
 - Requires 0-SCore

CompoPackTweaks

- This standalone modlet disables a WRN in the log files when using custom traders. It is specifically built for CompoPack and not meant to be used directly by players

Sample Project

- This standalone modlet contains some sample code and a small buildable project for modders to learn from.

Spherell A Better Life

- This modlet adds fish into the water ways, and new plant life.
- Requires 0-SCore

Spherell A Round World

- A small modlet that turns on various features of 0-SCore to provide a light weight modded play
- Requires 0-SCore.

Spherell Challenges

- A small modlet that adds a new page of Challenges for players to use.
- Requires 0-SCore

Spherell Disable Sway

- A small standalone modlet that disables head bob and weapon sway for those sensitive to motion sickness

Spherell Larger Parties

- A small modlet that increases the maxium size of a party to 100, over the standard 8.

Spherell Legacy Distant Terrain

- A modlet that brings forward terrain from A17, and disables the Splat Map System
- This can be used as a small performance boost, and for people who want to add custom biomes.

Spherell Peace Of Mind

- A modlet that removes some of the less desirable scenes for mental health reasons
- Changes Party Girl's model to Marlene, mutes Trader Rekt, removes nooses, and removes the blocks with bodies handing off them.
 - If 0-SCore is available, it will remove any flickering lights.

Spherell Take And Replace

- A modlet that allows you to pick up certain blocks, such as pulling boards off windows.

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Measures

Features and Functionalities

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Core Features

0-SCore contains many scripts and harmony patches to complete its objections.

Many such features are turned off by default, as the purpose of the 0-SCore is a general purpose mod that allows modders to customize it.

Most features are configured via the 0-SCore/Config/blocks.xml

Here is a small snippet:

In the above snippet, there's some features specifically for the player. Turning the feature from false to true will enable it.

Other features are more complex, and will take more time to sort out, such as Food Spoilage and Crafting From Containers.

The 0-SCore's Config/blocks.xml is not meant to be editted by the player or modder directly. Doing so will make it more difficult to update the 0-SCore version, as your changes will be over-written. Simply re-using a modify blocks.xml could cause other problems, as new features are added.

Instead, use another modlet to modify the blocks. It's important that this modlet loads after 0-SCore.

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Default On Features

The following features are on by default:

Extended Signs - This feature, enabled by default, allows players to put web links to images in their signs and have the image displayed.

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Challenges

Challenges were introduced into the game in the first V1 release. The 0-SCore has expanded the available challenges

Notes:

Challenges are defined in the challenges.xml file. There's 3 parts to a challenge:

```
reward_event="NoEvent"
      <!-- an individual challenge that is added to the row -->
       <challenge name="rifle01"</pre>
            title_key="gunRifleTOPipeRifle"
            icon="ui_game_symbol_long_shot"
            group="PerceptionGroup"
            short_description_key="challengeKillZombies"
            description key="challengeKillZombiesDesc"
            reward text key="challenge reward 1000xp"
            reward_event="challenge_reward_1000">
            <objective type="KillWithItem, SCore" count="10"</pre>
item="gunRifleTOPipeRifle"
                            />
        </challenge>
Examples can be found here:
https://github.com/SphereII/SphereII.Mods/tree/master/Mods/SphereII%
20Challenges/Config
```

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Fire Challenges

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Block Destroyed By Fire

Tracks and manages the player's progress in a challenge where they need to destroy a certain number of blocks using fire.

Key Features:

Challenge Tracking:

This class tracks the number of blocks destroyed by fire as part of a challenge. Each block destroyed by fire increments the player's progress towards completing the challenge.

Event Handling:

Listens for the OnDestroyed event from FireManager, which is triggered when a block is destroyed by fire in the game.

Progress Check:

The Check_Block method is called whenever a block is destroyed by fire. It increments the Current value, which tracks how many blocks have been destroyed, and checks if the challenge is complete by calling CheckObjectiveComplete().

Localization:

The challenge's description is localized using the LocalizationKey, which can be customized via XML. This ensures that the description displayed to the player is adaptable to different languages.

XML Snippet Relation:

In an XML configuration file, the challenge might be set up like this:

```
<objective type="BlockDestroyedByFire, SCore" count="20" />
```

This configuration defines a challenge where the player must destroy 20 blocks using fire.

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Start a Fire

Tracks and manages the player's progress in a challenge where they need to destroy a specified number of blocks by using fire.

Key Features:

• Challenge Tracking:

This class tracks the number of blocks destroyed by fire as part of a challenge. Each time a block is destroyed by fire, the player's progress is updated.

• Event Handling:

Listens for the OnDestroyed event from FireManager, which is triggered whenever a block is destroyed by fire. The Check Block method is called whenever this event occurs.

Progress Check:

When the Check_Block method is triggered, it increments the Current value, representing how many blocks have been destroyed by fire. It then checks if the challenge is complete by calling CheckObjectiveComplete().

Localization:

The challenge's description is localized using the <code>LocalizationKey</code>, which defaults to <code>"onblockDestroyedByFire"</code> but can be customized via XML configuration, ensuring that the description is adaptable to various languages.

XML Snippet Relation:

In an XML configuration file, the challenge might be set up like this:

```
<objective type="BlockDestroyedByFire, SCore" count="20" />
```

This configuration defines a challenge where the player must destroy **20 blocks** using fire.

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Extinguish Fire

Tracks and manages the player's progress in a challenge where they need to extinguish a certain number of fires.

Key Features:

Challenge Tracking:

This class tracks the number of fires extinguished by the player as part of a challenge. Each time a fire is extinguished, the player's progress is updated.

Event Handling:

Listens for the OnExtinguish event from FireManager, which is triggered when a fire is extinguished in the game. The OnFireExtinguished method is called when the event occurs.

Progress Check:

The OnFireExtinguished method checks if the local player extinguished the fire by comparing the entity ID. If the local player is responsible, the UpdateProgress method increments the Current value (tracking how many fires the player has extinguished) and checks if the challenge is

complete by calling CheckObjectiveComplete().

Localization:

The challenge's description is localized using the <code>LocalizationKey</code>, which defaults to <code>"onExtinguish"</code> but can be customized via XML. This allows the objective description to be adapted to various languages or formats.

XML Snippet Relation:

In an XML configuration file, the challenge might be set up like this:

```
<objective type="ExtinguishFire, SCore" count="20" />
```

This configuration defines a challenge where the player must extinguish 20 fires.

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Out of Control Fire

Purpose:

Tracks and manages the player's progress in a challenge where they need to sustain or reach a large fire size or intensity, encouraging the player to create significant fires.

Key Features:

Challenge Tracking:

This class tracks the size or intensity of the fire as part of a challenge. The objective is to reach or maintain a "big fire."

Event Handling:

Listens for the OnFireUpdate event from FireManager, which is triggered when there is an update to the size, spread, or intensity of a fire in the game.

Progress Check:

When the OnFireUpdate event is triggered, the Check_Block method updates the Current progress with the fire size (count), representing the magnitude of the fire. After updating, it checks if the challenge is complete based on the goal set in the XML.

Localization:

The description for the challenge is localized using the LocalizationKey, which can be customized via XML configuration, ensuring the objective description is adaptable for different languages.

XML Snippet Relation:

In an XML configuration file, the challenge might be set up like this:

```
<objective type="BigFire, SCore" count="20" />
```

This configuration defines a challenge where the player must sustain or create a "big fire" with a size or intensity of **20**.

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Block Challenges

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Project Analyzer

Block Destroyed

Tracks and manages the player's progress in a challenge where they must destroy specific blocks based on various conditions like block type, material, biome, or Points of Interest (POIs).

Key Features:

Challenge Tracking:

This class tracks blocks destroyed by the player as part of a challenge. The blocks must meet certain conditions, such as being of a specific type, made of a specific material, located in a particular biome, or associated with certain POIs.

Event Handling:

Listens for the BlockDestroy and BlockChange events from QuestEventManager, which are triggered when blocks are destroyed or changed. The Check_Block method is called in response to these events to evaluate if the destroyed block meets the challenge criteria.

Progress Check:

The Check_Block method checks if the destroyed block meets the conditions set by the challenge (block name, material, biome, POI, or POI tags). If the block matches the prerequisites, the player's progress (Current) is incremented, and the challenge checks for completion via CheckObjectiveComplete().

• Prerequisite Check:

The HasPrerequisite method verifies if the block matches the required block name or material set in the challenge.

Location Requirement Check:

The HasLocationRequirement method ensures the block is located in the required biome and POI. It also checks for matching POI tags if specified.

Localization:

The challenge's description is localized using the LocalizationKey, which can be customized via XML configuration. This allows for adaptable descriptions in various languages or formats.

XML Snippet Relation:

In an XML configuration file, the challenge might be set up like this:

```
<objective type="BlockDestroyed, SCore" count="20" block="myblock" biome="burn_forest" po
<objective type="BlockDestroyed, SCore" count="20" material="myMaterial" biome="pine_forest"</pre>
```

These configurations define challenges where the player must:

- Destroy **20 blocks** named myblock located in the burn_forest biome and associated with the POI traderJen.
- Destroy 20 blocks made of myMaterial, located in the pine_forest biome, and associated with POIs that have the tag wilderness.

More examples:

```
<objective type="BlockDestroyed, SCore" count="20"</pre>
```

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Block Upgrade

Tracks and manages the player's progress in a challenge where they need to upgrade blocks in the game, possibly using specific items, in specific biomes, or while holding certain tools.

Key Features:

Challenge Tracking:

This class tracks the progress of block upgrades made by the player as part of a challenge. Players must upgrade blocks under certain conditions, such as using a specific tool, being in a particular biome, or upgrading blocks of a certain type or material.

Event Handling:

Listens for the BlockUpgrade event from QuestEventManager. This event is triggered when a block is upgraded in the game. The Current_BlockUpgrade method is called in response to this event to check if the block upgrade matches the challenge requirements.

Progress Check:

The Current_BlockUpgrade method checks various conditions, such as the block name or tags, biome, and items held by the player during the upgrade. If all conditions are satisfied, the Current progress is incremented, and the challenge checks for completion by calling CheckObjectiveComplete().

Block Name and Biome Check:

The method <code>CheckBlockName(block)</code> ensures the block being upgraded matches the required block or block tags set in the challenge, and <code>CheckBiome()</code> validates if the upgrade happens in the correct biome.

• Holding Items Check:

The method CheckHoldingItems() verifies whether the player is holding a specific tool or item (e.g., a stone axe or a repair tool) during the block upgrade. This ensures the challenge only progresses when the correct items are used.

Localization and XML Configuration:

The challenge can be customized via XML, allowing specific block types, tools, and biomes to be set. This provides flexibility in designing different types of block upgrade challenges with varied requirements.

XML Snippet Relation:

In an XML configuration file, the challenge might be set up like this:

```
<objective type="BlockUpgradeSCore,SCore" block="frameShapes:VariantHelper" count="10" h
<objective type="BlockUpgradeSCore,SCore" block_tags="wood" count="10" held="meleeToolRep
<objective type="BlockUpgradeSCore,SCore" block_tags="wood" count="10" biome="burnt_fores</pre>
```

These configurations define challenges where the player must:

- Upgrade 10 specific blocks named frameShapes: VariantHelper while holding a stone axe and using resourceWood as a required material.
- Upgrade 10 blocks tagged as wood with the same tool and resource requirements.
- Upgrade 10 blocks tagged as wood while being in the burnt_forest biome.

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Kill Challenges

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Kill With Item

This class defines a challenge where the player must kill specific entities (typically zombies) using certain items or items with specific tags. It extends the ChallengeObjectiveKillByTag class, allowing for more complex conditions like item-based kills, stealth checks, and additional localization options.

Key Features:

• Challenge Tracking:

This class tracks kills made by the player using specific items or items tagged with certain attributes. The player must kill entities (usually zombies) with a particular item or item tag to progress through the challenge.

Event Handling:

Listens for the OnClientKillEvent event triggered when an entity is killed. The Check_EntityKill method is called to verify if the kill meets the challenge's conditions (e.g., the player was holding a specified item during the kill).

Progress Check:

The HasPrerequisiteCondition method checks if the kill matches the required conditions (e.g., the right item was used, or the kill was made stealthily). If the conditions are met, the base class method Current_EntityKill is invoked to handle the core progress logic.

Item and Stealth Checks:

The challenge can be configured to require kills with specific items (via ItemClass) or items with certain tags (via ItemTag). Additionally, if StealthCheck is enabled, the kill must be made in stealth mode (e.g., using sneak damage).

Localization:

The description of the challenge is generated dynamically based on the items or tags involved. The DescriptionText property constructs a description based on the items the player must use to complete the challenge, making it adaptable to various languages and game conditions. Custom localization keys can be provided via XML.

XML Snippet Relation:

In an XML configuration file, the challenge might be set up like this:

```
<objective type="KillWithItem, SCore" count="2" item="gunHandgunTlPistol" />
<objective type="KillWithItem, SCore" count="2" item_tags="handgunSkill" />
<objective type="KillWithItem, SCore" count="2" item="gunHandgunTlPistol" entity_tags="zcore")</pre>
```

These configurations define challenges where the player must:

• Kill 2 zombies using the gunHandgunTlPistol.

- Kill 2 zombies using any item tagged with handgunSkill.
- Kill 2 zombies using the gunHandgunT1Pistol, with additional restrictions on entity tags and localized target name (xuiZombies).

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Decapitation

This class defines a challenge where the player must decapitate enemies (typically zombies) to complete the objective. It extends the ChallengeObjectiveKillWithItem class to incorporate additional logic specifically for monitoring decapitations as part of the challenge.

Key Features:

Challenge Tracking:

This class tracks decapitations made by the player, requiring them to kill enemies by removing their heads in order to progress through the challenge.

Event Handling:

Uses the Check_EntityKill method, which is triggered when an entity is killed. It checks whether the kill resulted in a decapitation, and only if the enemy's head is removed does it count towards the challenge progress.

Decapitation Check:

The method Check_EntityKill checks the Dismember flag in the DamageResponse object to verify if the decapitation occurred. It further checks if the entity's head was dismembered via the AvatarZombieController. If the decapitation criteria are met, the base class (ChallengeObjectiveKillWithItem) is called to handle progress tracking.

Localization:

The description of the challenge is localized using the LocalizationKey, which defaults to "challengeDecapZombies" but can be customized via XML. This allows for adaptable descriptions across different languages.

XML Snippet Relation:

In an XML configuration file, the challenge might be set up like this:

```
<objective type="Decapitation, SCore" count="2" />
```

This configuration defines a challenge where the player must **decapitate 2 entities** (e.g., zombies) to complete the challenge.

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Stealth Streak

This class defines a challenge where the player must perform consecutive **stealth kills** in order to complete the objective. The challenge is designed to track stealth kills and reset progress if the player fails to perform a stealth kill during the streak.

Key Features:

• Challenge Tracking:

This class tracks consecutive **stealth kills** as part of the challenge. The player must complete a specified number of stealth kills in a row to meet the objective. The kills are tracked via a custom variable (CVar), which can store the player's longest streak of stealth kills.

• Event Handling:

The Check_EntityKill method is triggered when an entity is killed. This method checks if the kill qualifies as a stealth kill (by checking the Sneak damage bonus). If the kill was not a stealth kill, the streak is reset, and the player's longest streak is updated.

Stealth Kill Check:

The Check_EntityKill method verifies if the kill was a stealth kill by checking the BonusDamageType in the DamageResponse. If the kill is not a stealth kill, the player's current streak (Current) is recorded in a custom variable (cvarName), and the streak is reset.

CVar Tracking:

The class uses a custom variable (cvarName) to store and update the player's longest streak of stealth kills. If the player fails to continue the streak, the current value is updated in the CVar and the streak is reset.

Localization:

The challenge's description is localized using the LocalizationKey, which defaults to "challengeObjectiveStealthKillStreak". This allows for dynamic descriptions that can be adapted for different languages.

XML Snippet Relation:

In an XML configuration file, the challenge might be set up like this:

```
<objective type="StealthKillStreak, SCore" count="2" cvar="longestStreakCVar" />
```

This configuration defines a challenge where the player must **perform 2 consecutive stealth kills** to complete the objective, and the longest streak is tracked using the CVar "longestStreakCVar".

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Game Play

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Tool

Complete A Quest With Stealth

This class defines a challenge where the player must complete a quest with a specified number of **consecutive stealth kills**. The challenge can be configured to require full quest completion in stealth, and it tracks the player's stealth kills during the quest.

Key Features:

Challenge Tracking:

This class tracks consecutive **stealth kills** made by the player during a quest. The challenge requires the player to kill enemies stealthily without being detected, and the progress is reset if the player breaks stealth.

• Quest Activation and Sleeper Clearing:

The challenge starts tracking stealth kills only after a quest has been activated. It listens for the OnRallyPointActivated event and adds event handlers for stealth kills and the clearing of sleepers (entities tied to a quest). The challenge can also auto-complete when all sleeper volumes

are cleared during a quest, even if the stealth kill count hasn't been reached.

Stealth Kill Check:

The Current_EntityDamaged method checks if the kill was a **stealth kill** by examining the damage response. If the player was detected (not sneaking), the streak is reset. If the player continues to make stealth kills, the Current progress is incremented, and the objective is checked for completion.

Progress Reset:

If the player breaks stealth, the Reset method is called to reset the current progress (Current) and the objective (Complete), stopping the event listeners for tracking further kills.

Localization:

The challenge's description is localized using a default localization key ("ChallengeObjectiveCompleteQuestStealth") that can be adapted for different languages or formats.

XML Snippet Relation:

In an XML configuration file, the challenge might be set up like this:

```
<objective type="CompleteQuestStealth, SCore" count="2"/>
<objective type="CompleteQuestStealth, SCore" count="1000"/>
```

These configurations define challenges where the player must:

- Perform 2 consecutive stealth kills during a quest.
- Complete the entire quest using **only stealth kills** (assuming a count of 1000).

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Wear By Tags

This class defines a challenge where the player must **wear items with specific tags**, such as armor or equipment with certain properties (e.g., armorHead). It extends the ChallengeObjectiveWear class, adding support for item tags, allowing for more flexible conditions related to worn items.

Key Features:

Challenge Tracking:

This class tracks whether the player is wearing items with specific tags. The player's progress is updated whenever they wear or equip items matching the required tags.

Event Handling:

Listens for the WearItem event from QuestEventManager, which is triggered when the player wears or equips an item. The Current_WearItem method is called to check if the worn item has the correct tags and to update progress if it does.

Tag Check:

The challenge uses the itemTags field to specify the tags required for the worn items. The FastTags system is used to parse and check whether the worn items have any of the required tags. If the tags match, the player's progress (Current) is incremented, and the challenge checks for completion.

• Progress Check on Init:

During initialization (HandleAddHooks), the class checks if the player is already wearing any items that meet the tag requirements. If the player already has qualifying items equipped, the progress is updated immediately.

Localization:

The description of the challenge is dynamically generated based on the item tags. The DescriptionText property combines a localized base message ("challengeObjectiveWearTags") with the specific item tags to provide a clear description of the objective.

XML Snippet Relation:

In an XML configuration file, the challenge might be set up like this:

```
<objective type="WearTags,SCore" item_tags="armorHead"/>
```

This configuration defines a challenge where the player must wear an item with the armorHead tag to complete the challenge.

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Gather By Tags

This class defines a challenge where the player must **gather items with specific tags**. It tracks the number of items collected that match the required tags and progresses the challenge as the player gathers the correct items.

Key Features:

Challenge Tracking:

This class tracks the number of items the player collects that match the specified itemTags. The player must gather a specific number of items with those tags to complete the challenge.

Event Handling:

The class listens for changes in the player's inventory, such as items being added or removed from the **backpack**, **toolbelt**, or through **drag-and-drop** actions. The CheckItems method is triggered when these changes occur, and it updates the challenge progress accordingly.

Item Tag Check:

The challenge uses itemTags to define what types of items need to be gathered. The CheckForNeededItem method checks both the backpack and toolbelt to see if the player has items that match the tags. If the required number of items is found, the Current progress is updated, and the challenge checks for completion.

Progress Check on Inventory Change:

Every time the player's inventory changes (via the backpack or toolbelt), the CheckItems method is called to verify if the gathered items meet the challenge requirements. If the player has collected the required number of items, the objective is marked as complete.

Localization:

The description of the challenge is generated using the <code>DescriptionText</code> property, which combines a localized base message (<code>"challengeObjectiveGatherTags"</code>) with the specific <code>itemTags</code> to describe the objective.

XML Snippet Relation:

In an XML configuration file, the challenge might be set up like this:

```
<objective type="GatherTags, SCore" item_tags="junk" count="10"/>
```

This configuration defines a challenge where the player must **gather 10 items** that are tagged as <code>junk</code> to complete the challenge.

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Measures

Craft With Ingredient

This class defines a challenge where the player must craft items that include a specific **ingredient**. The challenge tracks the player's crafting actions and checks if the required ingredient is part of the crafting recipe.

Key Features:

Challenge Tracking:

The class tracks crafting actions and checks if the specified ingredient is used in the recipe. The player must craft items that contain the required ingredient to progress through the challenge.

Event Handling:

Listens for the CraftItem event from QuestEventManager, which is triggered whenever the player crafts an item. The Current_CraftItem method is called to check if the crafted item's recipe contains the specified ingredient.

Ingredient Check:

The Current_CraftItem method retrieves the recipe for the crafted item and iterates through its ingredients to check if the specified ingredientString matches any of the ingredients in the recipe. If the ingredient is found, the player's progress (Current) is updated by the ingredient count, and the challenge checks for completion.

Localization:

The description of the challenge is localized using the <code>LocalizationKey</code>, which defaults to <code>"craftWithIngredient"</code>. This allows the objective description to be customized for different languages or formats.

XML Snippet Relation:

In an XML configuration file, the challenge might be set up like this:

This configuration defines a challenge where the player must **craft 2 items** using the ingredient resourceLegendaryParts to complete the challenge.

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<objective type="CraftWithIngredient, SCore" count="2" ingredient="resourceLegendaryParts</pre>

Enter POI

This class defines a challenge where the player must enter a specific **Point of Interest (POI)** or a POI with specific tags to complete the objective. The challenge tracks whether the player enters the required POI and progresses accordingly.

Key Features:

Challenge Tracking:

This class tracks the player's movement and monitors when they enter a POI. The POI can be defined by a specific **name** or by a set of **tags**, or both.

• Event Handling:

Listens for the EnterPoi event from EventOnEnterPoi, which is triggered when the player enters a POI. The Current_PrefabEnter method is called to verify if the entered POI matches the challenge's requirements (name or tags).

• POI Validation:

The isValidPOI method checks if the entered POI matches the specified name (_prefabName) or the tags (_poiTags). If both are specified, it validates both criteria. The POI is considered valid if it matches the name, tags, or both.

Progress Check:

Once the player enters a valid POI, the Current progress is incremented. If the player meets the required number of POI entries (tracked by MaxCount), the challenge is marked as complete via CheckObjectiveComplete().

Localization:

The description of the challenge is dynamically generated using the <code>DescriptionText</code> property, which combines a base message ("challengeObjectiveEnter") with the name of the POI to provide clear instructions to the player.

XML Snippet Relation:

In an XML configuration file, the challenge might be set up like this:

```
<objective type="EnterPOI, SCore" prefab="traderJen" tags="trader"/>
```

This configuration defines a challenge where the player must enter a POI named traderJen and tagged as trader to complete the objective.

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Harvest

This class defines a challenge where the player must **harvest specific items or blocks**. It tracks items harvested in the game and checks if the player's actions meet the challenge's conditions, such as using specific tools, harvesting in certain biomes, or gathering items with specific tags.

Key Features:

• Challenge Tracking:

This class tracks the player's harvesting actions. The player must gather or harvest items that meet the specified conditions (e.g., specific item tags, block tags, or biome restrictions).

Event Handling:

The class listens for the <code>HarvestItem</code> event from <code>QuestEventManager</code>, which is triggered when the player harvests an item. The <code>Current_HarvestItem</code> method is called to validate if the harvested item or block meets the challenge criteria.

Harvest Validation:

The ${\tt Current_HarvestItem}$ method checks multiple conditions:

- O **Held Item Tags**: If held_tags is set, the challenge ensures the player is holding an item with the required tags before validating the harvested item.
- o **Item Class or Tags**: If specific items (itemClass) or item tags (itemTag) are defined in the challenge, the harvested item must match these conditions.
- O Biome: The method checks if the player is in the correct biome, using the CheckBiome

method.

O **Block Tags**: If block tags are specified, the method verifies that the harvested block has the required tags using the CheckBlockTags method.

Progress Check

Once the harvested item or block passes all checks, the player's progress (Current) is incremented. If the player meets the required number of successful harvests (tracked by MaxCount), the challenge is marked as complete via CheckObjectiveComplete().

Localization:

The description of the challenge is dynamically generated using the <code>DescriptionText</code> property, which retrieves a localized message based on the <code>LocalizationKey</code>. This allows for dynamic descriptions that can adapt to different languages or formats.

XML Snippet Relation:

In an XML configuration file, the challenge might be set up like this:

```
<objective type="Harvest, SCore" count="20" item="resourceWood" />
<objective type="Harvest, SCore" count="20" item="resourceWood" biome="burnt_forest" />
<objective type="Harvest, SCore" count="20" item_tags="woodtag" />
<objective type="Harvest, SCore" count="20" block_tags="blocktag" />
```

These configurations define challenges where the player must:

- Harvest 20 units of resourceWood.
- Harvest 20 units of resourceWood in the burnt_forest biome.
- Harvest 20 items with the tag woodtag.
- Harvest 20 blocks with the tag blocktag.

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NPC

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Hire NPC

- HireNPC

- New challenge to track of hired NPCs

```
<objective type="HireNPC, SCore" count="10" />
```

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Encumbrance

The 0-SCore Encumbrance allows a modder to add a simple weight management system.

The Encumbrance feature itself only performs the calculations to set the cvar number. It is up to the modder themselves on how to use that cvar to apply it to their players

For example, having the cvar value being used to calculate the player speed or movement.

Release Notes:

- Encumbrance check fires when something is added / removed from back pack, toolbelt, and equipment.
- Once encumbrance is calculated, it's total value is added to a cvar, specified in the Config block. By default, this is encumbranceCVar.
- The value of the cvar is based on percent. When set to 1f, the player is considered at MaxEncumbrance.
 - A value of 1.5 means the player is considered to b e 50% over encumbered.
- Maximum Encumbrance is read from the Config Block. However, if the CVar "MaxEncumbrance" is set, it will use that value instead.
- If Max Encumrabrance drops below 0, it will be reset to the default Config Block Entry.
- The CVar will not be reset, only the value being used to perform the calculation.
- ItemWeight can be 0, and can also be negative numbers.

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Measures

Configuring

The ConfigurationBlock contains settings that enable and customize the properties.

```
property class="AdvancedPlayerFeatures" >
     <!-- Enables item weight encumbrance on the Player bag -->
     property name="Encumbrance" value="false" />
     <!-- how much encumbrance before "max" threshold is set, and penalties
are incurred. -->
     <!-- MaxEncumbrance value can be over-ridden by having a cvar of the
same name on the player -->
     <!-- The CVar value will over-ride his value. -->
     operty name="MaxEncumbrance" value="10000" />
     <!-- This cvar value will be placed on the player and will be a
percentage of encumbrance. -->
     <!-- 1f = at max encumbrance. 1.5, 50% over encumbrance -->
     <!-- Include Tool belt? -->
     property name="Encumbrance_ToolBelt" value="false" />
     <!-- Include equipment ? -->
     cproperty name="Encumbrance_Equipment" value="false" />
     <!-- Each item that does not have a ItemWeight property will be weighed
at this value. -->
     cproperty name="MinimumWeight" value="0.1" />
</property>
```

The MimumWeight property sets a minimum weight for all items in the game.

This property can be over-ridden on any items.xml or a blocks.xml using the ItemWeight property.

```
cproperty name="ItemWeight" value="10" />
```

You can use the following xml pattern to modfy these features:

```
<set
xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='AdvancedPlay
erFeatures']/property[@name='Encumbrance']/@value">true</set>
<set
xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='AdvancedPlay
erFeatures']/property[@name='Encumbrance_ToolBelt']/@value">true</set>
<set
xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='AdvancedPlay
erFeatures']/property[@name='Encumbrance_Equipment']/@value">true</set>
<set
xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='AdvancedPlay
erFeatures']/property[@name='MinimumWeight']/@value">1</set>
```

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Craft From Containers

Crafting from containers allows players to craft in their backpacks and in their workstations from nearby workstations.

It also allows players to repair blocks using materials from nearby workstations as well.

This feature is disabled, by default, if an enemy is nearby. This blocks both crafting and repairing from containers.

You may also enable and disable this feature based on workstations, such as only allowing certain storage containers to work with a certain workstation.

By default, the distance for the containers to workstation is about 10 blocks.

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Configuring

Crafting From Containers has a few features to turn it on and off.

The features are spread over two different Class configurations: Advanced Recipes and BlockUpgradeRepair.

```
cproperty name="disablereceiver" value="forge, tbd" />
      <!-- enables sending only from workstations in disablesender-->
      operty name="disablesender" value="" />
      cproperty name="Invertdisable" value="false"/>
     <!-- disable remote crafing on workstation from certain containers. e.g
workbench:storageCrate, birdNest;campfire:birdNest,storageCrate -->
     <!-- sections are separated by ";" workstation and containers by ":"
containers are separated by ",". workstations can be grouped by "," e.g
workbench,campfire:birdNest,storageCrate -->
      cproperty name="nottoWorkstation" value=""/>
     <!-- enables remote crafing on workstations only from named containers.
e.g workbench:storageCrate, birdNest;campfire:birdNest,storageCrate -->
     <!-- binds are separated by ";" workstation and containers by ":"
containers are separated by ",". workstations can be grouped by "," e.g
workbench,campfire:birdNest,storageCrate -->
     roperty name="bindtoWorkstation" value=""/>
     cproperty name="enforcebindtoWorkstation" value="false"/>
     <!-- disables remote crafting if not bound -->
</property>
class="BlockUpgradeRepair" >
     <!-- disables repair/upgrade when enemies nearby -->
     property name="BlockOnNearbyEnemies" value="false"/>
     cproperty name="DistanceEnemy" value="30" />
     <!-- remote repair/upgrade -->
     cproperty name="ReadFromContainers" value="false"/>
      cproperty name="Distance" value="40" />
</property>
```

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Player Features

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AntiNerdPole

Nerd Poling is where a player jumps and places a block under their feet. Players use this technique to quickly get to safe spots, and to climb buildings quickly.

To block players from doing this, enable the AntiNerdPole feature.

<set

xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='AdvancedPlay
erFeatures']/property[@name='AntiNerdPole']/@value">true</set>

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One Block Crouch

One Block Crouch allows players to crouch and enter into a one block space.

To allow players to do this, enable the OneBlockCrouch feature.

<set

xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='AdvancedPlay
erFeatures']/property[@name='OneBlockCrouch']/@value">true</set>

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Soft Hands

Soft Hands causes players who bunch or hit anything with their bare hands to take damage. This feature is meant for players to think more carefully about what they bunch.

Gloves and weapons negate this effect.

To enable the Soft Hands feature:

<set

xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='AdvancedPlay
erFeatures']/property[@name='SoftHands']/@value">true</set>

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AutoRedeem Challenges

AutoRedeem Challenges automatically redeems any challenges that have been completed, without going in manually to claim them

<set

xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='AdvancedPlay
erFeatures']/property[@name='AutoRedeemChallenges']/@value">true</set>

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Zero Exp

To disable gaining of experience from any source, you can enable the ZeroXP feature.

<set

xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='AdvancedProg
ression']/property[@name='ZeroXP']/@value">true</set>

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Enemy Health Bars

To see the enemy health bars, toggle the following setting:

<set

xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='AdvancedUI']
/property[@name='ShowTargetHealthBar']/@value">true</set>

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Disable XP Pop up

To disable the XP pop up after a kill,

<set

xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='AdvancedUI']
/property[@name='DisableXPIconNotification']/@value">true</set>

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Zombie Features

The features in this section deal with zombies and how they react to the world around them.

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Random Walk Types

To randomize zombie walk types,

<set

xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='AdvancedZomb
ieFeatures']/property[@name='RandomWalk']/@value">true</set>

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Headshot Only

To enable head shot only,

<set

xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='AdvancedZomb
ieFeatures']/property[@name='HeadshotOnly']/@value">true</set>

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Advanced Locks

In partnership with xyth, a lock picking mini-game was added to 0-SCore.

Note: You need the Locks modlet for the model: https://github.com/7D2D/V1.0-Mods/blob/main/Locks.zip

Difficulty of the Locks is determined by the health of the locked storage unit itself. A locked storage box with more health is more difficult to pick open.

Likewise, if a locked storage container is damaged, it becomes easier to pick open.

The lock may be turned right of left using the keyboard short cuts, and holding space to try to open it.

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Protection

Configuring

This feature will only be enabled if the Locks modlet is available, and it's turned on. Locks itself will control the turning it on, so you will not have to do this.

The difficulty is scaled at 4 different rates, depending on the HP of the storage container.

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Food Spoilage

The Food Spoilage system allows you to spoil food over time.

This would allow you to spoil fresh meat into rotting meat, or change teas into cold teas.

It allows storage containers to have a spoilage value that will reduce how fast something spoils, while other storage containers may spoil faster.

The best write up is from khzmusik, and I'll link his repo here: https://gitlab.com/karlgiesing/7d2d-1.0-mods/-/tree/main/khzmusik Food Spoilage?ref type=heads

Here is a snippet:

Food spoilage is calculated when the player opens a container with one or more stacks of consumable items in it. The term SphereII uses for this calculation is *loss calculation*.

A loss calculation can only happen after a certain number of game ticks since the last time the loss was calculated. This number of ticks is called *ticks per loss*. The ticks per loss is configurable in XML, and can be set individually per consumable item.

The loss caluclation can happen multiple times at once, if the ticks per loss would have been reached multiple times since the container was last opened. For example, if ticks per loss is 100, and it has been 1000 ticks since the user last opened the container, then the loss calculation will happen 10 times when the user opens that container.

Each time the loss calculation occurs, it uses a number of different values to determine the amount of

food spoilage:

- The spoilage amount starts as an amount specified for that consumable item in the item's XML. This
 amount is called *spoilage per tick* (though it should probably be called "spoilage per loss" or
 "spoilage per calculation").
- The stack of consumable items is always located in some container, and that container adds a
 number to the spoilage amount. The container can be the player's backpack, the player's toolbar, or
 a loot container. All three of these locations have their values set globally in XML.
- If the item stack is located in a loot container, that container can offset the global amount of spoilage that is added for all loot containers. This is called the *preserve bonus* of the container. The preserve bonus is *subtracted* from the spoilage amount.

Once that amount is calculated, it is compared against the total amount of spoilage that can occur before *one* consumable item spoils. That total amount of spoilage is called the *maximum spoilage*.

This process happens until the calculated spoilage amount is less than the maximum spoilage:

- One consumable item is removed from the item stack.
- A spoiled item, representing a spoiled version of the original item, is created. The spoiled item can be specified in the XML for each consumable item, or defaults to rotten meat. If this is set to the consumable item itself, then the consumable item spoils into nothing.
- The spoiled item is placed in *the player's backpack*, creating a new stack if necessary. (It goes into the player's backpack regardless of which container held the original item.) If there is no room in the player's backpack, the spoiled item is dropped on the ground.
- The maximum spoilage is subtracted from the calculated spoilage amount.

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Configuration

The 0-SCore/Config/blocks.xml contains the Food spoilage snippet

```
class="FoodSpoilage">
     cproperty name="Logging" value="false"/>
     <!-- Turns on Food spoilage-->
     cproperty name="FoodSpoilage" value="false" />
     <!-- This is necessary for v1.0 for a bug that has been fixed in v1.1 --
     operty name="UseAlternateItemValue" value="false" />
     <!-- Amount of spoilage per tick when an item is on the tool belt -->
     cproperty name="Toolbelt" value="6" />
     <!-- Amount of spoilage per tick when an item is in the back pack -->
     cproperty name="Backpack" value="5" />
     <!-- Amount of spoilage per tick when in a standard container -->
     cproperty name="Container" value="4" />
     <!-- absolute minimum spoilage per tick -->
     cproperty name="MinimumSpoilage" value="1" />
     <!-- Global Setting Example value=10 10 ticks per Spoilage increase.
-->
     cproperty name="TickPerLoss" value="10" />
```

For items that are expected to spoil, you must set the following properties:

These items are optional, and will over-ride individual settings from the global setting in blocks

For storage containers, you can configure them so that some containers will spoil faster, or slower, than the defaults.

The higher the Preserve bonus, the slower it'll spoil.

```
property name="PreserveBonus" value="1.75" />
```

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Blocks

This section details additional blocks

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DecoAoE

This block is an always Active TileEntity.

You may add an ActiveRadiusEffects, like a campfire, that will affect the players when they are within range.

It requires no power, no special model, and no other configuration except for the following:

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BlockTakeAndReplace

TakeAndReplace allows you to pick up a block and have it automatically changed into another block, such as pulling boards off a window, leaving just the window.

It allows you to filter not only what kind of block or shape you can pick up, but also which tool you need to

use to do the picking up.

Main blocks.xml entry:

Legacy value allows you to pick up any block when you are holding the specified TakeWithTool. TakeWithTool is a comma delimited list.

Notes:

cproperty name="TakeWithTool" value="meeleeToolRepairT1ClawHammer" />

- If this property is specified, the Take Prompt will only show when you are holding that item.
- This happens after we've checked ValidMaterial, and passed the material check for pick up.
- If this property is not specified, then the Take Prompt will show up for those blocks.
- Note: HoldingItem property is still valid. The item(s) specified in this property will half the time it takes for the block.
- If the item that you are holding has the tag "silenttake", then no sound will be played when a block is taken.
 - This happens regardless if the tool is specified in TakeWithTool or HoldingItem.
 - If you can take a block, and have that tag on your hand item, no sound will be played.
 - Updated the "Take Sound" to be more appropriate for the material you are taking.
 - Wooden sound for wood materials. Steel sound for steel materials.
 - Added a property option CheckToolForMaterial, with the default being false.
 property name="CheckToolForMaterial" value="true"/
 - If this property is defined and set to true, then the block will check for a tag on the holding item
 - The tag on the holding item must be the material ID that is allowed to be picked up.

```
<item name="meleeToolRepairT0StoneAxe">
         <!-- Allow the stone axe to pick up any block that is Mwood_weak
or Mwood regular.
         Mwood_regular"/>
<!-- full example : -->
<append xpath="/shapes/shape[@name='windowBoarded']">
    cproperty name="Class" value="TakeAndReplace, SCore"/>
    cproperty name="CanPickup" value="true"/>
    property name="TakeDelay" value="8"/>
    <!-- Only allow picking up window board blocks that are weak or regular
wood -->
    <!-- Only allow picking up blocks with this tool being held. -->
    roperty name="TakeWithTool"
value="meleeToolRepairT0StoneAxe,meleeToolRepairTazaStoneAxe"/>
    <!-- Check the currently held tool's tag for the material of the block /
shape being picked up -->
    <!-- note: That means that the stone axes must have a Mwood_weak tags in
```

- Created some helper shortcuts in order to reduce hard coding many references in the blocks.xml/shapes.xml
- If the TakeWithTool property exists on the block / shape, then a lookup against the AdvancedPickUpAndPlace class is triggered.
 - -> ValidMaterials operates the same style of lookup.
- This lookup uses the value of the TakeWithTool from the block/shape as a key to an entry in AdvancedPickUpAndPlace.

For Example:

value="meleeToolRepairT0StoneAxe,meleeToolRepairT0TazasStoneAxe,meleeToolRepairT1ClawHammer,meleeToolAxeT1IronFireaxe,meleeToolAxeT2SteelAxe,meleeToolAxeT3Chainsaw">

And now, instead of defining a full tool list, or a full material list on the individual block, you can do something like this.

- You may append to the class with your own unique keys

```
<append
```

xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='AdvancedPick
UpAndPlace']">

```
property name="WoodenFenceTools"
```

value="meleeToolRepairT0StoneAxe,meleeToolRepairT0TazasStoneAxe,meleeToolRepairT1ClawHammer,meleeToolAxeT1IronFireaxe,meleeToolAxeT2SteelAxe,meleeToolAxeT3Chainsaw" />

```
</append>
```

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BlockTriggeredSDX

TriggerSDX block is a TileEntity that is always active, much like the DecoAoe Block, but allows for more configurable options.

If you have a custom model, that includes an Animator object, you can allow it to animate when it's going stuff.

You have the option to animate it based just on proximity, or force the user to actually look at the block before triggering.

Regardless, when the animator is triggered, the following occur:

"On" bool parameter is triggered in the animator "TriggerOn" trigger parameter is triggered in the animator.

If the RandomIndex property is set, then a random number between 0 and the value specified will be generated.

This random value is stored in the "RandomIndex" integer parameter in the animator.

```
<block name="myTestBlock">
      cproperty name="Class" value="TriggeredSDX, SCore"/>
      property name="AlwaysActive" value="true" />
      <!-- How far out the tile entity will re-scan to detect the player -->
      cproperty name="ActivationDistance" value="5" />
       <!-- this triggers a SetTrigger("On") when looked at -->
      property name="ActivateOnLook" value="true" />
      roperty name="RandomIndex" value="10" />
      <!-- allows the block to be used as a storage device -->
      cproperty name="IsContainer" value="true" />
      <!-- Triggers the block if the buff buffCursed is active on the player,
or if the player has a cvar called "cvar" with a value of 4, or if myOtherCvar
is available, regardless of value -->
      property name="ActivationBuffs"
value="buffCursed,cvar(4),myOtherCvar"
      <!-- This will read the cvarName1, and mycvarName2 from the player, if
it's on the player,
           and sets Animator's matching value of the block. This only works
if your block has an Animator.
       <property name="CopyCVarToAnimator" value="cvarName1;mycvarName2" />
</block>
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```

Buffs

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HelpNDoc

Requirements

The 0-SCore provides some new Buff Requirements.

- FactionRelationshipValue, SCore

Example: You have set a custom cvar named "charisma", with a value of 0 - 1000, and the faction relationship must be lower than that value.

- HoldingItemDurability, SCore

- RequirementEveryDawn, SCore

```
<!-- Every dawn at 7 --> <requirement name="RequirementEveryDawn, SCore" value="7"/>
```

- RequirementEveryXDaySDX, SCore

```
<!-- Every 7 days -->
<requirement name="RequirementEveryXDaySDX, SCore" value="7"/>
<!- Blood Moon -->
<requirement name="RequirementEveryXDaySDX, SCore" value="0"/>
```

- RequirementEveryXHourSDX, SCore

```
<!-- Every 7th hour --> <requirement name="RequirementEveryXHourSDX, SCore" value="7"/>
```

- RequirementIsBloodMoonDMT, SCore

```
<!-- true if not a blood moon -->
<requirement name="RequirementIsBloodMoonDMT, SCore" invert="true" />
<!-- true if a blood moon -->
<requirement name="RequirementIsBloodMoonDMT, SCore" />
```

- RequirementIsNearFire, SCore

```
<!-- is within 5 blocks of a fire. Uses fire mod --> <requirement name="RequirementIsNearFire, SCore" range="5" />
```

- RequirementIsOutdoor, SCore

```
<!-- Is the player outside, with an open sky above ?--> <requirement name="RequirementIsOutdoor, SCore" />
```

- RequirementIsUnderGround, SCore

```
<!-- Is the player underneath the terrain --> <requirement name="RequirementIsUnderGround, SCore" />
```

- RequirementLookingAt, SCore

```
<!-- Is the player looking at the specified tile entity? -->
      <requirement name="RequirementLookingAt, SCore" block="campfire" />
      <!-- Is the player looking at one of the specified tile entities? -->
      <requirement name="RequirementLookingAt, SCore" block="campfire,</pre>
workstation" />
      <!-- is the player looking at any tile entity? -->
      <requirement name="RequirementLookingAt, SCore" block="Any" />
      <!-- This cvar will be placed on the player, but it's really just an
offset.
            if the block is lower than your feet, this value will be -1.
            If the block is the same y position, this value will be 0.
            if the block is at eye height, then this value will be 1.
            if the block is higher than eye height, this value will be 2.
            Note: I don't remember what this was for.
      <requirement name="RequirementLookingAt, SCore" block="campfire,</pre>
workstation" cvar="cvarFocusedBlock" />
```

- RequirementOnSpecificBiomeSDX, SCore

- RequirementSameFactionSDX, SCore

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MinEvents

MinEvents can be added to buffs and item actions.

More documentation may be available in the source code's header file: https://github.com/SphereII/SphereII.Mods/blob/master/Mods/0-SCore/Scripts/MinEvents/

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Features

MinEventActionAddByFactionSDX

This will add the specified buff to others within the AoE range, that matches the faction.

ie, if you are running it on an animal, the AoE won't apply to the zombies.

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Tool

MinEventActionAddScriptToTransform

This will attach a script to a transform.

```
<!-- Attach the GlobalSnow script to the Camera transform when the player
enters the game -->
<triggered_effect trigger="onSelfEnteredGame" action="AddScriptToTransform,
SCore" transform="Camera" script="GlobalSnowEffect.GlobalSnow,
BetterBiomeEffects"/>
```

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MinEventActionAdjustTransformValues

This triggered effect will adjust local rotation and offsets for the specified transform.

```
<triggered_effect trigger="onSelfBuffUpdate"
    action="AdjustTransformValues, SCore"
    parent_transform="AK47"
    local_offset="-0.05607828,0.07183618,-0.02150292"
    local_rotation="-3.98,-9.826,-5.901"
    <!-- Optional. Defaults to false -->
    debug="true"
    />
```

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MinEventActionAnimatorFireTriggerSDX

Fires the specified trigger on all animators found on the target.

```
<triggered_effect trigger="onSelfBuffStart" action="AnimatorFireTriggerSDX,
SCore" trigger="triggerName"/>
```

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MinEventActionAnimatorSpeedSDX

This loops through all the targets, adjusting the animator speed.

```
<!-- normal speed -->
<triggered_effect trigger="onSelfBuffStart" action="AnimatorSpeedSDX, SCore"
target="self" value="1" />
<!-- twice as fast -->
<triggered_effect trigger="onSelfBuffStart" action="AnimatorSpeedSDX, SCore"
target="self" value="2" />
```

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MinEventActionAnimatorSetFloatSDX

This sets an Animator's Float value, either using a hard coded value or a cvar

```
<triggered_effect trigger="onSelfBuffStart" action="AnimatorSetFloatSDX,
SCore" property="myParameter" value="2" />
<triggered_effect trigger="onSelfBuffStart" action="AnimatorSetFloatSDX,
SCore" property="myParameter" value="@myCvar" />
```

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MinEventActionAnimatorSetIntSDX

This sets an Animator's Int value, either using a hard coded value or a cvar

```
<triggered_effect trigger="onSelfBuffStart" action="AnimatorSetIntSDX, SCore"
property="myParameter" value="2" />
<triggered_effect trigger="onSelfBuffStart" action="AnimatorSetIntSDX, SCore"
property="myParameter" value="@myCvar" />
```

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MinEventActionAttachPrefabWithAnimationsToEntity

This is a purpose-built triggered effect that doesn't really match it's name.

It adds the BlockClockScript to a block, presumably that's configured for a clock.

```
<triggered_effect trigger="onSelfBuffStart"
action="AttachPrefabWithAnimationsToEntity, SCore" />
```

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MinEventActionAutoRedeemChallenges

Triggered effect that will look through all challenges, and redeem them automatically

```
<triggered_effect trigger="onSelfBuffUpdate" action="AutoRedeemChallenges,
SCore" />
```

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MinEventActionChangeFactionSDX

A triggered effect that allows changing of an entity's faction.

```
<!-- Change the faction to Bandits -->
<triggered_effect trigger="onSelfBuffStart" action="ChangeFactionSDX, SCore"
target="self" value="bandits" />
<!-- Change the faction to the undead -->
<triggered_effect trigger="onSelfBuffStart" action="ChangeFactionSDX, SCore"
target="self" value="undead" />
<!-- Change the faction back to the original value it had -->
<triggered_effect trigger="onSelfBuffStart" action="ChangeFactionSDX, SCore"
target="self" value="original" />
```

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Tool

MinEventActionCheckWeapon

Triggered effect meant for EntityAliveSDX, to validate that it's holding the right weapon, and updating all the right values for that weapon

```
<triggered_effect trigger="onSelfBuffUpdate" action="CheckWeapon, SCore" />
```

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MinEventActionClearOwner

Clears an NPC's Owner and Leader values, freeing it.

```
<triggered effect trigger="onSelfDamagedBlock" action="ClearOwner, SCore" />
```

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MinEventActionClearStaleHires

Goes through a player's cvar, looking for hired NPCs that no longer exist.

```
<triggered_effect trigger="onSelfBuffUpdate" action="ClearStaleHires, SCore"
/>
```

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MinEventActionConvertItem

Triggered effect that will convert the player's holding item into another item, once it's max usage is done.

This allows you to set a durability of an item that breaks to something else.

```
<triggered_effect trigger="onSelfPrimaryActionEnd" action="ConvertItem, SCore"
downgradeItem="meleeClub" maxUsage="10" />
```

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MinEventActionCreateItemSDX

This will create an item with the amount provided.

```
<triggered_effect trigger="onSelfBuffRemove" action="CreateItemSDX, SCore"
item="drinkJarCoffee" count="2"/>
<triggered_effect trigger="onSelfBuffRemove" action="CreateItemSDX, SCore"
lootgroup="2" count="1" />
```

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MinEventActionDespawnNPC

This triggered effect will despawn the entity.

```
<triggered_effect trigger="onSelfBuffUpdate" action="DespawnNPC, SCore" />
```

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MinEventActionExecuteConsoleCommand

This triggered effect will trigger the command, if the user has the right permission.

```
<triggered_effect trigger="onSelfBuffStart" action="ExecuteConsoleCommand,
SCore" command="st night"/>
```

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Tool

MinEventActionExecuteConsoleCommandCVars

This triggered effect will trigger the command, using the specified cvars as values

```
<triggered_effect trigger = "onSelfBuffStart" action =
"ExecuteConsoleCommandCVars, SCore" command = "testCommand {0} {1}" cvars =
"cvar1,cvar2" />
```

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MinEventActionGiveQuestSDX

This triggered effect will give the specified quests

```
<triggered_effect trigger="onSelfBuffStart" action="GiveQuestSDX, SCore"
target="self" quest="myNewQuest" />
```

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MinEventActionGuardClear

This triggered effect will make the NPC clear it's guard position.

```
<triggered_effect trigger="onSelfBuffUpdate" action="GuardClear, SCore"</pre>
```

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MinEventActionGuardHere

Sets the guard position to an NPC where the leader or owner is standing.

If there are no leader or owner, for example, if the order was given by a pathing cube, then it sets the guard

position to where the entity is standing.

```
<triggered_effect trigger="onSelfBuffUpdate" action="GuardHere, SCore" />
```

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MinEventActionGuardThere

Sets the guard position of an NPC to where the NPC is currently standing.

```
<triggered effect trigger="onSelfBuffUpdate" action="GuardThere, SCore" />
```

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MinEventActionHideNPCSDX

This triggered effect will make an EntityAliveSDX. This is used, for example, to send an NPC on a mission.

```
<triggered_effect trigger="onSelfBuffUpdate" action="HideNPCSDX, SCore"
hide="true" />
```

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MinEventActionModifyFactionSDX

This modifies the relationship with the faction specified, and adjusts it accordingly.

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MinEventActionModifyRelatedFactionsSDX

Changes the target's relationship with the specified faction, and all the specified related factions (if any), according to the relationships between the faction and the related factions.

See full documentation: https://github.com/SphereII/SphereII.Mods/blob/master/Mods/0-SCore/Scripts/MinEvents/MinEventActionModifyRelatedFactionsSDX.cs

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Measures

MinEventActionModifySkillSDX

Modifies the skill of the player by the specified amount.

```
<!-- Levels up the skill "skill_name" by 1. --> 
<triggered_effect trigger="onSelfBuffStart" action="ModifySkillSDX, SCore" 
tag="skill_name" operation="add" value="1" /> // levels up skill_name by 1
```

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MinEventActionNotifyTeamAttack

Notifies the NPC's leader / allies that it's being attacked.

```
<triggered_effect trigger = "onSelfBuffUpdate" action="NotifyTeamAttack,
SCore" target="selfAOE" range="4" />
```

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MinEventActionNotifyTeamTeleport

If an NPC is following a player, and it's getting too far away, this will teleport them to their leader.

```
<triggered_effect trigger = "onSelfBuffUpdate" action="NotifyTeamTeleport,
SCore" />
```

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MinEventActionOpenWindow

This will open up the specified window for the current player.

```
<triggered_effect trigger="onSelfDamagedBlock" action="OpenWindow, SCore"
window="SCoreCompanionsGroup"/>
```

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MinEventActionPlayerLevelSDX

This will increase the player's level by 1.

```
<triggered_effect trigger="onSelfBuffStart" action="PlayerLevelSDX, SCore"
target="self" />
```

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MinEventActionPumpQuestSDX

This will loop through all of the entity's quests, and refresh the objectives to see if they are completed.

```
<triggered_effect trigger="onSelfBuffStart" action="PumpQuestSDX, SCore"
target="self" />
```

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MinEventActionTeleportToQuest

This will attempt to teleport the player to the specified guest's target POI.

```
<triggered_effect trigger="onSelfBuffStart" action="TeleportToQuest, SCore"
quest="sorcery_trader_arcane" />
```

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MinEventActionRandomLootSDX

This triggered effect will give a random loot to the target entity.

```
<triggered_effect trigger="onSelfBuffRemove" action="RandomLootSDX, SCore"
lootgroup="brassResource" count="1" />
```

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MinEventActionRecalculateEncumbrance

Re-calculates the encumbrance, if this feature is enabled.

```
<triggered_effect trigger="onSelfBuffRemove" action="RecalculateEncumbrance,
SCore" />
```

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MinEventActionResetTargetsSDX

Clears the target's attack and revenge targets

```
<triggered_effect trigger="onSelfBuffRemove" action="ResetTargetsSDX,
SCore" />
```

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MinEventActionSetCVar

This will set a cvar on all AoE target's that matches the current entity's ID. It'll also set EntityID on the entity it's running on.

```
<triggered_effect trigger = "onSelfBuffUpdate" action="SetCVar, SCore"
target="selfAOE" range="4" />
```

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MinEventActionSetDateToCVar

Sets the current day on the entity.

```
<triggered_effect trigger="onSelfBuffStart" action="SetDateToCVar, SCore"
target="self"/>
```

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MinEventActionSetFactionRelationship

Sets the faction's relationship

<triggered_effect trigger="onSelfBuffStart" action="SetFactionRelationshipSDX,
Mods" target="self" faction="bandits" value="400" />

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MinEventActionSetOrder

Sets the order for an NPC

<triggered_effect trigger = "onSelfBuffUpdate" action="SetOrder, SCore"
value="Stay" />

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MinEventActionSetOwner

Sets the Owner of a TileEntityPoweredTrigger

```
<triggered_effect trigger="onSelfDamagedBlock" action="SetOwner, SCore" />
```

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MinEventActionSetRevengeTarget

Sets the revenge target for all affected entity IDs.

Additional documentation is available here: https://github.com/SphereII/SphereII.Mods/blob/master/Mods/0-SCore/Scripts/MinEvents/MinEventActionSetRevengeTarget.cs

```
<!-- Sets all the entity's around it to attack the current entity -->
<triggered_effect trigger="onSelfAttackedOther" action="SetRevengeTarget,
SCore" target="other" value="@_entityId" />
```

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MinEventActionShowToolTipSDX

Shows a tooltip to the local player.

<triggered_effect trigger="onSelfAttackedOther" action="ShowToolTipSDX, SCore" message="Hello" />

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MinEventActionSkillPointSDX

Gives the player some skill points.

```
<triggered_effect trigger="onSelfBuffStart" action="SkillPointSDX, SCore"
target="self" value="2" />
```

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MinEventActionSpawnBabySDX

Spawns an entity from a spawn group

```
<triggered_effect trigger = "onSelfBuffFinish" action="SpawnBabySDX, SCore"
target="self" SpawnGroup="farmAnimalsCow" />
```

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MinEventActionSpawnEntitySDX

Spawns an entity from a group. Same as BabySDX.

```
<triggered_effect trigger = "onSelfBuffFinish" action="SpawnEntitySDX, SCore"
target="self" SpawnGroup="farmAnimalsCow" />
```

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MinEventActionSpawnEntityAtPoint

Spawns an entity at the point being looked at by the player.

```
<triggered_effect trigger="onProjectileImpact" action="SpawnEntityAtPoint,
SCore" SpawnGroup="ZombiesBurntForest" />
```

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MinEventActionSwapWeapon

Changes the EntityAliveSDX's weapon to the one specified.

```
<triggered_effect trigger = "onSelfBuffUpdate" action="SwapWeapon, SCore"
item="meleeClub" />
```

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MinEventActionTeamTeleportNow

Immediately teleports the hired NPCs to its leaders.

```
<triggered_effect trigger = "onSelfBuffUpdate" action="NotifyTeamTeleportNow,
SCore" />
```

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MinEventActionTeleport

Teleports the target to a Portal destination. See more information on Portals

```
<triggered_effect trigger="onSelfBuffStart" action="Teleport, SCore"
location="Portal01" />
<triggered_effect trigger="onSelfBuffStart" action="Teleport, SCore"
location="destination=Portal01" />
```

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MinEventActionToggleCamera

Toggles the specified camera to be enabled or disabled.

```
<triggered_effect trigger="onSelfBuffStart" action="ToggleCamera, SCore"
cameraName="Camera" value="false" />
<triggered_effect trigger="onSelfBuffFinish" action="ToggleCamera, SCore"
cameraName="Camera" value="true" />
```

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Factions

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Relationship Tiers

Vanilla Faction Tiers

Hate	0-199
Dislike	200-399
Neutral	400-599
Like	600-799
Love	800-1000

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NPCs

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Orders

Entity Orders Enum

None	0
Follow	1
Stay	2
Wander	3
SetPatrolPoint	4
Patrol	5
Hire	6
Loot	7
Task	8
Guard	9

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Portals

Documentation on 0-SCore's portals.

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Release Notes and Version History

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Measures

Current Version

Version: 1.0.83.950 [Events]

- Fixed a null reference with the OnClientKill when the game would trigger the event after the game killed.

[Challenges]

- Added an optional cvar attribute for StealthKillStreak.
- This cvar will hold the longest recorded kill streak.

<objective type="StealthStreak, SCore" count="2" cvar="longestStreakCVar" />

[SCore Utilities]

- Created a window group for the SCore Utilities button
- Added it to the xui.xml, rather than the existing in game-menu
- Removed the background and cleaned up the SCore Utilities creen.

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Previous Versions

#0-SCore

The 0-SCore is the key component to enable extra functionality for 7 Days To Die. Using a mixture of Harmony, SDX Patch Scripts, and Scripts,

new features are enabled for modders and players to use.

```
| Folder | Description |
|------|
```

| Config | XML Files that serve as documentation, basic setup for required items. blocks.xml contains many default settings to review and adjust as needed.|

| Harmony | Many harmony scripts to make small adjustments to the game. These scripts, for the most part, can be turned on and off via the blocks.xml|

| Scripts | Many Scripts which include new classes. References to these scripts would be ```<className>, SCore``` |

|Features | Features will contain all the code necessary for a particular feature, grouping the code so it can be easily found and extracted. |

Direct Downloads

Direct Download to the 0-SCore.zip available on gitlab mirror:

https://github.com/SphereII/SphereII.Mods/releases/latest

TODO

- Fix random sounds from NPC, like stamina exhaustion
- Fix an issue with remote crafting where all ingredients are not in the same storage box

Change Logs

```
[ Change Log ]
Version: 1.0.83.950
[ Events ]
```

- Fixed a null reference with the OnClientKill when the game would trigger the event after

the game killed.

[Challenges]

- Added an optional cvar attribute for StealthKillStreak.
- This cvar will hold the longest recorded kill streak.
 <objective type="StealthStreak, SCore" count="2" cvar="longestStreakCVar" />

[SCore Utilities]

- Created a window group for the SCore Utilities button
- Added it to the xui.xml, rather than the existing in game-menu
- Removed the background and cleaned up the SCore Utilities creen.

Version: 1.0.82.935

[Fire Mod]

- Added Events:
 - OnExtinguish Triggered when a fire is extinguished
 - OnFireUpdate Triggered when a CheckBlocks on the fire mod finishes
 - OnStartFire Triggered when a new block is put on fire.

[Challenges]

- Fixed a null reference with the KillWith
- Fixed up LocalizationKey entry for some Challenge Objectives
- Decapitation
 - New challenge to keep track of decapitations. Supports xml attributes from

KillWithItem

```
<objective type="Decapitation, SCore" count="10" item_tag="gun" />
<objective type="Decapitation, SCore" count="10" item_tag="knife,machete" />
```

- Craft With Ingredient
- New challenge objective to allow a player to craft with a certain ingredient, rather than a recipe itself.

<objective type="CraftWithIngredient, SCore" count="2"</pre>

ingredient="resourceLegendaryParts"/>

- Burn Down a Building
- New challenge to reward a player for burning down a house using the fire mod.
 <objective type="BlockDestroyedByFire, SCore" count="20" />
- Start a Fire
 - New challenge to reward a player for starting a fire.
- <objective type="StartFire, SCore" count="20" />
- Out of Control Fire
- New challenge to reward a player for having a large fire
 objective type="BigFire, SCore" count="20" />
- Extinguish Fire
 - New challenge to reward a player for extinguishing some blocks.
- <objective type="ExtinguishFire, SCore" count="20" />
 - World's more boring challenge for a pyro
- Break a block or a material on a block, and further define if it's in a certain biome and/or poi_tag.

```
<objective type="BlockDestroyed, SCore" count="20"</pre>
```

block="cntRetroFridgeVer1Closed" />

<objective type="BlockDestroyed, SCore" count="20"</pre>

block="cntRetroFridgeVer1Closed" biome="burn_forest" />

<objective type="BlockDestroyed, SCore" count="20"</pre>

- Updated Spherell Challenges with examples.

Version: 1.0.81.1118

[SCore Events]

- Added two new events:
- OnRallyPointActivated
 - When a Rally Point is activated, this event is called
- OnClientKill
 - When an entity gets killed, this event is called.
 - This event differs from the vanilla's Kill event, as it includes the DamageResponse.
 - Vanilla event fires too early to have the Damage Response included in it.

[Project]

- Added new SphereII Challenges project.
- This includes a full page of Challenges that involve the new SCore events and new Challenge Objectives

[Process Options]

- Fixed an issue where the graphic settings were not running
- Added a check for the blocks.xml for some settings, before reading the cvar.

[Lock Picking]

- Added a buff check to see if the Jail Breaking buff was active
 - If active, break time is drastically increased, as well as the max angle to turn.
- Feel a bit limited on how to further cheese a skilled based game on candy.

[Remote Crafting / Repair]

- Added a tool tip to display if there's an enemy nearby, blocking you from pulling
- Fixed an issue where you could not repair even from your backpack, when enemies were

near.

[Challenges]

-CompleteQuestStealth, SCore

A new challenge objective to monitor your stealth kills during a quest.

To pass this challenge, you must do consecutive stealth kills until you've reached

the desired count.

If the stealth kill chain is broken, the Challenge is reset.

If the intention is that the full quest be done 100% stealth, set the count to be higher than the expected number of zombies

Once the Sleeper volumes are all cleared for the QuestObjectiveClear, then the challenge will complete, regardless if

the Count is equaled to the count specified.

Examples:

- <!-- Kill two entities in a row with a stealth kill, during a quest. --> <objective type="CompleteQuestStealth, SCore" count="2"/>
- <!-- Kill all entities in a row with a stealth kill, during a quest. --> <objective type="CompleteQuestStealth, SCore" count="1000"/>

-KillWithItem, SCore

To pass this challenge, you must killed zombies with the specified item. This

extends the KillByTag objective, and thus supports

all those attributes as well. Multiple item="" can be listed as a comma-delimited

list.

<!-- Kill two zombies in a row with a gunHandgunT1Pistol --> <objective type="KillWithItem, SCore" count="2" item="gunHandgunT1Pistol" />

Rather than item name itself, you could also use item_tag
<objective type="KillWithItem, SCore" count="2" item_tags="handgunSkill" />

ItemName is checked first, then item tags. If either passes, then vanilla code is checked for the other tags and checks.

You may also add the option entity tags and target name key for localization.

By default, the entity_tags and target_name_key is zombie and xuiZombies, respectively. These can be over-ridden via xml.

<objective type="KillWithItem, SCore" count="2" item="gunHandgunT1Pistol"
entity_tags="zombie" target_name_key="xuiZombies" />

Other attributes available are:

target_name="zombieMarlene" biome="snow" killer_has_bufftag="buff_tags" killed_has_bufftag="buff_tags" is_twitch_spawn="true/false"

Note About Traps:

If the item is a trap, such as a landmine, then the owner ID is not set on it. There is no way to track down, or give exp to a player

for the kill. I did add a check for this, so that you can use a landmine for a

challenge.

If a zombie dies from a trap, and the player is within 50 blocks, it will count towards the challenge.

- StealthStreak Challenge

A new challenge objective to monitor your stealth kills

To pass this challenge, you must do consecutive stealth kills until you've reached

the desired count.

If a kill is registered, and is not a sneak kill, then the challenge resets.

<!-- Kill two entities in a row with a stealth kill --> <objective type="StealthStreak, SCore" count="2"/>

This challenge extends from KillWithItem, and supports all those tags as well.

Version: 1.0.75.721 [Farming]

- Fixed a null reference error when world is null / not ready.

Version: 1.0.72.659

[Process Options]

- Added additional checks again a player being null or being on dedi.

Version: 1.0.71.2148

[Remote Crafting / Repair]

- Fixed an issue where 2x the amount of resources was available. Display only bug.
- Removed debug lines.

Version: 1.0.70.1352

[Remote Crafting / Repair]

- Fixed an issue where ItemActionEntryRepair wasn't detecting ingredients from an open container.
- Added checks for IsUserAccessing to check if the current user has a chest open, allowing them to pull resources from that container.

[CanSway]

- Fixed a null reference when exiting a game.

Version: 1.0.65.1554

[No Changes to SCore, only Better Life]

[Spherell A Better Life]

- 1.0.19.1554
- Fixed an issue where errors would occur without NPC Core installed, due to factions.

Version: 1.0.64.2041

[SCore Options]

- Added toggle for WeaponSway
- Added Toggle for gfx st set 0
 - Game needs to be restarted after checked.
 - Every start after will have that automatically running.
- Added Toggle for gfx pp enable 0
 - Game needs to be restarted after checked.
 - Every start after will have that automatically running.

[Weapon Sway]

- Added patches to vp_Weapon / vp_Camera to block swaying and bob code from

running.

- This feature is configured via a cvar called "\$WeaponSway".
 - Value of 0 will enable sway.
 - Value of 1 or more will disable sway.
- This is included into 0-SCore, and as a standalone mod.
 - The standalone mod disables it completely, with no option to toggle it

back on.

- This feature can be toggled using the SCore Utilities, or through a console

command

- Added new console Command weaponsway
 - "weaponsway true" will turn on weapon and camera sway.
 - "weaponsway false" will turn off weapon and camera sway.

[Zombie Random Walk Type]

- Removed default Spider / Crawler walk types
- Spider's head position look wonky, and crawlers were too slow.

[A Better Life]

- Added notrample tag on fish
- Merged in new plants from blue name.

Version: 1.0.60.1241

[MinEvent]

- Added a new MinEvent to allow changing local transform / rotation on a particular transform on an entity.

```
parent_transform="AK47"
local_offset="-0.05607828,0.07183618,-0.02150292"
local_rotation="-3.98,-9.826,-5.901"
<!-- Optional. Defaults to false -->
debug="true"
```

[Console Command]

- Added a new console command to assist testing of the above MinEvent.
- Use this cautiously.

/>

- Example:

ReloadSCore buffs ReloadSCore entityclasses

[Particles On Block]

- Fixed a few issues where particles were being loaded incorrectly, causing a hard

crash

- Added a patch on the init to pre-load Particles
- Added a check for to keep a particle upon removal of its block
 property name="PeristAfterRemove" value="false" />
- Somewhat realistic example:

<append xpath="/blocks/block[contains(@name,'emberPile')]">
cproperty class="Particles" >

SCore_sphereii):Resources/gupFireParticles.unity3d?gupBeavis02-CampFire,#@modfolder(0-SCore_sphereii):Resources/gupFireParticles.unity3d?gupBeavis03-Cartoon,#@modfolder(0-score)

SCore sphereii):Resources/gupFireParticles.unitv3d?gupBeavis04-SlowFire.#@modfolder(0-

Score_spriereii).Resources/gupFireFarticles.unity3d?gupBeavis04-3lowFire,#@modioi

SCore_sphereii):Resources/gupFireParticles.unity3d?gupBeavis06-HeavyLight"/>

cproperty name="OnSpawnProb" value="0.1"/>

roperty name="PeristAfterRemove" value="false" />

Version: 1.0.59.1007

[Food Spoilage]

- Added missing FreshnessOnly check on the ModifyCVar minevent patch.
- The FreshnessOnly patch to execute if the item has the "FreshnessBonus" property on the item, and it's set to true.

Version: 1.0.58.1256 [Resharpen]

- Fixed an issue where I confused UseTimes with Quantity.
- When you sharpen an item, it'll remove a random amount from the UseTime, capped at 20% of the total max usages
 - Added 2 no location entries to be over-ridden in Localization.txt

TooDamagedToSharpen,"This item is too worn out to be resharpened.",""
NotDamagedEnoughToSharpen,"This item is still in pretty good shape.",""

- Cleaned up the code to make it seem like it wasn't developed by a drug addled raccoon.
- If you have used the item 70 times, with a max usage of 250 $\,$
 - A Random number between 51 and 70 is generated.
 - 51 comes from 250 max usage * 0.2.
 - At most, the Use times will be reduced to 51, with a possible minimum of 69.

[Powered Workstation]

- Added a check to see if fuel slots were null before checking if anything was in them.

[EntityVehicle]

- Added Harmony patch to EntityVehicle's Kill() to trigger EntityAlive's dropCorpseBlock()
- - cproperty name="CorpseBlockChance" value="1"/>

[Events]

- Added two new Mod events to subscribe too
 - OnBloodMoonStart / OnBloodMoonEnd.
- This feature is still under development.

[Solution]

- Added Peace of Mind and Sample Project to Spherell. Mods Solution

[Peace of Mind]

- Fixed an issue where the noose block was causing a warning [thanks blue name]

[Sample Project]

- Fixed an a block warning [thanks blue name]

Version: 1.0.56.1453 [Sprinklers]

- Fixed an issue where water sprinklers were not turning on and off on dedicated servers

[Freshness]

- Removed test buff of "buffFreshnessSCore" when using the Freshness system and Food Spoilage.

[Portals]

- Fixed a null reference when adding a portal key to the text
- Fixed another null reference where there was not a smart mesh on the block
- Fixed an issue where the player would exist in the same block space as the portal, causing the player unstuck message
 - Moved player position up by 1 on teleport.

[Advanced Items - Sharpen]

- Changed the Sharpen feature to put new item right into backpack / ground, rather than through the crafting queue
- Previously, if you cancelled the resharpen from the crafting queue, you'd get the ingredients of the item back, and not the item you were sharpening.

[Spawn Particle On Block]

- Experimental
- Added a series of Harmony patches under Features/Particles/Harmony/Blocks.xml
- $\hbox{-} On Block Damaged, On Block Added, On Block Remove}\\$
- This will add the specified particle to the block whenever those events are added, if defined on the block.
 - The following syntax is supported:

```
<br/><blook name="blah" ><br/>property class="Particles" ><br/><!-- Use this re-
```

- <!-- Use this particle when the block is added to the world. -->
- <!-- comma delimited, if you want to randomize which particle. -->
- <!-- otherwise, just a single bundle reference.
- cproperty name="OnSpawnParticle" value="unitybundle,unitybundle2"/>
 - <!-- If you want to change the particle based on biome?-->
 - <!-- Use OnSpawn_<biome name> -->
- cproperty name="OnSpawnParticle_pine_forest"

```
value="unitybundle,unitybundle2"/>
                            <!-- Probably of each block that gets a particle -->
                     cproperty name="OnSpawnProb" value="0.2"/>
                     <!-- If you want a different particle for when it gets damaged -->
                     </block>
Version: 1.0.51.1516
       [Resharpen]
              - Fixed an issue where the option would not be properly enabled.
                     - Was looking for the wrong property name.
              cproperty name="SharpenItem" value="sharpeningStone" />
       [Spherell A Better Life]
              - Many fixes to the models to improve and add hit boxes (xyth)
              - Enables more fishes from pipermac. (xyth)
              - Fixed the ModInfo.xml's name entry so it's properly ordered.
Version: 1.0.49.1202
       [ Repair From Containers ]
              - Adjusted ordering of Nearby Enemy filter
                     - Check to see if in Party
                     - Check if nearby entity is in party
                     - Check if nearby entity is an ally
                     - Then check if nearby entity can damage you.
              - Previously, the "can damage you" check was before the Party check
       [Food Spoilage]
              - Moved Food Spoilage to a Feature folder
              - Food Spoilage items will have a new MetaData called "Freshness", which is a percentage
of freshness less max durability.
                     currentSpoilage / maxSpoilage
              - Freshness percentage is stored as 0,1 value, with 0.1 being 10%, and 1 being 100%
fresh.
              - The following vanilla code should be able to compare it through a requirement.
                     <triggered_effect trigger="onSelfPrimaryActionEnd" action="AddBuff"
buff="buffStillFresh">
                            <requirement name="CompareItemMetaFloat" operation="GTE"
value="0.1" key="Freshness"/>
                     </triggered_effect>
              - New Harmony Patches to allow custom Item Type Icons.
              - If the Freshness % is above 0%, it will use the AltItemTypeIcon, if it's defined.
              - If no AltItemTypeIcon is defined, nothing will display.
              - Once freshness reaches 0%, the ItemTypeIcon will be used, if it's defined.
              - Example item entry.
                            <!-- If there's freshness still available, display the campfire icon -->
                            con" value="campfire"/>
                            <!-- If there's no freshness left, display the cold icon -->
                            cold"/>
```

[FreshnessOnly - A Food Spoilage Sub-Feature]

Added a Freshness Only property for ItemClass entry.
 property name="FreshnessOnly" value="true" />

- This FreshnessOnly property unlocks a light-weight food spoilage implementation.
- The concept of this feature is to provide an incentive to eat food fresh, without punishing players who are not interested in it.
- If the FreshnessCVar property is defined, then only the cvars listed will be executed again with the multiplier.

- By default, FreshnessCVar is "all".
- If FreshnessCVar is "none", then all ModifyCVars will be ignored from the multiplier.
- Items with this property set to true will not downgrade to another item when spoiled.
- All items in the same stack will lose its freshness at once.
- If this freshness value is 0%, then it will no longer perform calculations
- If this freshness value is 0%, the durability bar will disappear, and the item will appear

normally.

- If a freshness value is greater than 0%, then the value of the consumable will be multiplied by that percentage
 - Example:

<triggered_effect trigger="onSelfPrimaryActionEnd" action="ModifyCVar"
cvar="\$waterAmountAdd" operation="add" value="20"/>

With a freshness value of 0.5 (50%)

- the \$waterAmountAdd will be increased by 20
- the \$waterAmountAdd will be further increased by 10. 20 * (.50 + 1)
- The total \$waterAmount will be 30
- When a consumable is ate when it's still fresh, a buff will be applied, letting the player know a bonus is active.
 - Example Implementation:

[Spherell Larger Party]

- Added a XUi/Config/windows.xml to increase the side of the window for more players.

Version: 1.0.46.1010

[EntitySwimingSDX / EntitySwimmingSDX]

- Fixed an issue where fish were leaving the water.
- Each fish searches for water blocks in its area, and uses that to validate it's pathing.
- If a fish has less than 20 water blocks, it'll despawn.
- If a fish leaves the water, it'll despawn.
- Added new class reference to fix spelling error in Swimming.

EntitySwimmingSDX and EntitySwimingSDX are the same, code-wise.

- Kept spelling error to maintain references

[A Better Life 1.0.0.732]

- Adjusted the ModInfo.xml's Name value
- Added the ability to auto-generate the version number.
- Adjusted the entityclasses.xml for class reference for extends.

Version: 1.0.45.1058

[Check Items For Valid Containers]

- Fixed another null reference when blocking an item from the NPC's loot container.
- Added filter for ItemValue's MetaData to exclude them from being added to a chest
- If an ItemValue has a Meta Data of "NoStorage", with a value greater than 0, it will be

blocked.

[NPCs]

- Added a few new properties to NPCs to block them from being added to storage.
- These are processed regardless of tags on the storage container or item.
- When an NPC is being picked up, NoStorage is read from the entityclass.
- By default, without this property, storage is allowed.
- npcNoStorage localization is added to the 0-SCore's Localization

Example syntax:

Version: 1.0.45.853

properties.

[Check Items For Valid Containers]

- Fixed a null reference when opening up zombie loot bags, because they do not have block
- Questioning life choices that I did not name this feature correctly, and will be forever doomed calling it "Check Items For valid Containers"
 - Added additional check for block at the tile location's position

[ModEvents]

- Removed a usefuless warning about duplicate mods folder (this is the standard now)
- This provides a quick hash of all installed mods, allowing overhauls to quickly see at a glance if it matches the expected value.
 - The hash is made up of modlet name + version number.
- If more mods are installed than expected, or it has different version numbers, the hash will change.
 - Changed the mod hash from a GetHashCode() to a truncated Sha256 value
 Modlet List Hash: 7E5FF

Version: 1.0.44.1602

[Check Items For Valid Containers]

- Introduced a new feature through a series of Harmony patches that allows you to filter items from storage containers.
 - Allows you to filter items being added to any given Loot Container based on tags.
 - A container with the AllowTags set to "all", will allow all items.
 - A container with no AllowTags or DisallowTags will not be checked at all, and act normally.
- If a loot container has the following property, then it will only allow items that have those tags to be stored.

value="axe,melee,light,tool,longShaft,repairTool,miningTool,attStrength,perkMiner69r,perkMotherLode,perkTheHuntsman,canHaveCosmetic,harvestingSkill,corpseRemoval"/>

- If an item is blocked, a denied UI sound will be triggered.
- If an item is dragged and dropped in a blocked container, a tooltip will also display.
- Shift clicking on an item to move it will play the denied UI.
- If a block has the following Property, this will be used to check for localization and display a custom blocked message.

cproperty name="DisallowedKey" value="NoPickUpForNPCs" />

- This property can also exist on the Item entry as well, and will over-ride the block's message, if it's set.
 - If not otherwise set, the default localization entry will be displayed.

Version: 1.0.43.1207 [Fire Manager]

- Removed the DynamicMeshChunk update, which was likely needless, and likely caused a performance issue.
- Added new property on a block to replace the target block with an ExtinguishedUpgradeBlock.

cproperty name='ExtinguishedUpgradeBlock' value='burntBlock' />

- When a block is extinguished, it will turn into this block.
- Damage from the original block is transfered over to the new block
- If the damage from the original block is greater than the new block's max health, it'll turn into an air block.

[Spherell Larger Parties]

- New modlet that allows Parties up to 100 members.
- Added a Minimum exp value for shared exp.
- Default Minimum Exp is 200.
- Not included into 0-SCore, because there is a transpiler patch.

Version: 1.0.39.746

[One Block Crouch]

- Disabled one block crouch by default.

[Take And Replace]

- Fixed an issue where the original default behaviour was broken.
- A new Configuration Block entry called "Legacy" is set to true, going to default behaviour.
- <!-- To enable advance configuration settings. -->

<set

xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='AdvancedPickUpAndPlace']/property[@name='Legacy']/@value">false</>

Version: 1.0.38.1615

[Food Spoilage]

- Adjusted references within the patches to use their full __instance values, rather than creating shorter forms for cleanliness
 - Fixed an issue where a stack was spamming unlimited rotten meat

```
[ 0-SCore Blocks ]
```

- Added new class to blocks.xml to support PickUpAndReplace features.

value="meleeToolRepairT1ClawHammer" />

[Take And Replace]

- When a TakeWithTools property is set, the default item of clawHammer gets cleared.
- Fixed the ordering of material checks according to the xml defined order.
 - -> is Block a Valid Material to pick up?
 - -> Do we need to check the hand item for pick up?
 - -> Are we holding one of those tools?
 - -> Does our current hand item have the proper material tag?
- Trying a new design pattern.
 - -> Hold unto your hats.
- Created some helper shortcuts in order to reduce hard coding many references in the blocks.xml/shapes.xml
- If the TakeWithTool property exists on the block / shape, then a lookup against the AdvancedPickUpAndPlace class is triggered.
 - -> ValidMaterials operates the same style of lookup.
- This lookup uses the value of the TakeWithTool from the block/shape as a key to an entry in AdvancedPickUpAndPlace.

```
For Example:
```

```
<!-- blocks.xml -->
<property name="TakeWithTool" value="WoodenFenceTools" />
<property name="ValidMaterials" value="woodMaterial"/>
```

<!-- Config Block -->

property class="AdvancedPickUpAndPlace">

cproperty name="Logging" value="false" />

cproperty name="TakeWithTool"

value="meleeToolRepairT1ClawHammer" />

roperty name="WoodenFenceTools"

value="meleeToolRepairT0StoneAxe,meleeToolRepairT0TazasStoneAxe,meleeToolRepairT1ClawHammer,meleeToolAxeT1IronFireaxe,meleeToolAxeT2SteelAxe,meleeToolAxeT3Chainsaw">

property name="woodMaterial"

value="Mwood_weak,Mwood_regular"/>

 You may append to the class with your own unique keys <append

value = "meleeToolRepairT0StoneAxe, meleeToolRepairT0TazasStoneAxe, meleeToolRepairT1ClawHammer, meleeToolAxeT1IronFireaxe, meleeToolAxeT2SteelAxe, meleeToolAxeT3Chainsaw" />

</append>

Version: 1.0.37.1432 [Localization]

- Updated some missing localization entries.

[Food Spoilage]

- Fixed an issue where a stack was spamming unlimited rotten meat
- Issue was related to the Spoilage meter on an item not being reset properly after each spoiled item.

[Jiggle Adjustments]

- If you are under 18, stop reading.
- This is mostly for xyth, who is more assuredly considered old enough to view.
- Exposed two properties for EntityAlive's:
 - <!-- Always enable the jiggle script, regardless of distance --> cproperty name="AlwaysJiggle" value="true" />
 - <!-- Never downscale the AI, regardless of distance --> cproperty name="NeverScaleAI" value="true" />

Version: 1.0.32.940

[CompoPackTweaks]

- main host for the CompoPackTeaks, which is used by the CompoPack Team
- You do not need to install this yourself for compopack; they supply it.
- Removes the warning for the DMS when new traders are added.
- Can be used by other groups for the same purpose.

[ObjectiveGiveBuffSDX]

- Removed the hard-coded "buff" word after the "Get <Buff>" string.

[Take And Replace]

- If this property is specified, the Take Prompt will only show when you are holding that

item.

- This happens after we've checked ValidMaterial, and passed the material check

for pick up.

- If this property is not specified, then the Take Prompt will show up for those blocks.
- Note: HoldingItem property is still valid. The item(s) specified in this property will half the time it takes for the block.
- If the item that you are holding has the tag "silenttake", then no sound will be played when a block is taken.
 - This happens regardless if the tool is specified in TakeWithTool or HoldingItem.
 - If you can take a block, and have that tag on your hand item, no sound will be

played.

- Updated the "Take Sound" to be more appropriate for the material you are taking.
 - Wooden sound for wood materials. Steel sound for steel materials.
- Added a property option CheckToolForMaterial, with the default being false.

cproperty name="CheckToolForMaterial" value="true"/

- If this property is defined and set to true, then the block will check for a tag on the holding

item

- The tag on the holding item must be the material ID that is allowed to be picked up. <item name="meleeToolRepairT0StoneAxe">
 - <!-- Allow the stone axe to pick up any block that is Mwood_weak or

Mwood_regular.

Mwood_regular"/>

<!-- Only allow picking up window board blocks that are weak or regular wood -->

<!-- Only allow picking up blocks with this tool being held. --> cproperty name="TakeWithTool"

value="meleeToolRepairT0StoneAxe,meleeToolRepairTazaStoneAxe"/>

<!-- Check the currently held tool's tag for the material of the block / shape being

picked up -->

<!-- note: That means that the stone axes must have a Mwood_weak tags in order to pick up those blocks -->

Version: 1.0.31.1121 [Events]

- Added a new folder Scripts/Events
- Added new event EventOnBuffAdded.OnBuffAdded, which is triggered whenever a buff is added.
- This event was not strictly necessary for the ObjectiveBuffSDX quest, but left just in case it's useful.
- Moved EventOnEnterPoi.OnEnterPoi to this new folder. This event is fired whenever a player enters the POI bounds.

[Quests]

- Fixed an issue with ObjectiveBuffSDX by adding in the necessary event hooks
- ObjectiveBuffSDX will be checked whenever a buff is added, or if a buff is already present, when the objective is current.
 - Cleaned up QuestActionGiveBuff
 - Added example syntax in quests.xml of 0-SCore

[Take and Replace]

- Added a material filter to the PickUpAndReplace block.
- If the block or shape does not have the listed material, the prompt will not show up, nor will the block work.
 - Removed some default shapes and blocks from the Take And Replace modlet.
 - Default: "Mwood_weak, Mwood_weak_shapes, Mwood_shapes";
 - If a block / shape has the following property, it will use them over the default.

cproperty name="ValidMaterials" value="" />

- It is a comma-delimited list.

Version: 1.0.30.1042

[NPCs]

- Fixed an issue when NPCs could not move around, and were stuck in inital pose.

Version: 1.0.29.1609

[SmartText Mesh]

- Added a Harmony patch to protect against null reference due to the Signs Feature.
- Sign Feature hides the wooden mesh and Text from showing up. This harmony patch

protects against

when the text is changing, and the TextMesh isn't enabled (yet).

[Signs]

- Fixed issues with signs not generating correctly.
- ImageWrapper, the basis of the image signs, has been modified to support a VideoPlayer
- Gifs are no longer supported unfortunately due to shader issues.
- Gif and Gifv links are converted by ImageWrapper to be a mp4 URL.
 - This probably only effectively works if you use an imgur link.
- This is then fed to the VideoPlayer as a Source URL.
- When the http:// link is removed, the sign is reverted back to vanilla texture and mesh.

Version: 1.0.28.1841

[EntityAliveSDX]

- Fixed a null reference when picking up an NPC and selecting their item.
 - It was storing a LootListName, which may be null, causing the null ref.

[Signs]

- Fixed an issue with http://images not displaying correctly on signs.
- Problem was identified that the new shader on the signs weren't allowing it.
 - Added a SCoreModEvents.GetStandardShader() that returns a Standard shader.
 - When using a custom http:// link, it will switch to this shader.
- A Redesign is necessary.
- Known Issue: URL text still shows up. Sometimes image doesn't.

Version: 1.0.25.1115

- Rebuilt, and fixed against b326.

[Take And Replace]

- Fixed a null reference if the PickedUpItemValue was null on a block.

Version: 1.0.23.1434

[Soft Hands]

- Fixed an issue where Soft hands was not negated by the new equipment system

[Take And Replace]

- Modifed the class to better support shapes.
- If a property called PickUpBlock is available, it'll give you whatever resource is listed there.
- If the property is not there, it'll give you the same block you pulled off.
- Example:

-> Order of reading PickUpBlock: current block, PickUpBlock from Shape, and PickUpBlock from block.

[Portals]

- Fixed a Portal Null reference when trying to access the block.

Version: 1.0.22.1055

- Cleaned up old debug statements.

[NPC]

- Fixed a null reference when opening a backpack from a dead NPC

[Broadcast]

- Fixed an issue where the button was not working properly

[Localization]

- Fixed some localization settings.

Version: 1.0.19.1056

- Restructured Repo to include a top level Mods folder.

Version: 1.0.19.944

[Powered Workstations]

- Fixed a bug where workstations would get free power if they did not have RequirePower

Version:1.0.18.1549

set to true.

[Pathing Cube]

- Fixed an issue where a Pathing cube would throw a null reference.
 - Got an updated block from xyth
 - Updated the code to work with TextMesh.

[Challenges]

- Added a challenges.xml file, all commented out.
- Shows how to add a new category, group, and challenges.

Version: 1.0.18.2207

- Rebuild against b317

[UAI]

- Fixed broken reference in UAITaskMoveToTarget.
- This used to set a reference to the closes enemy and player. However, those fields are no longer available.
 - Player reference is now set up for aiClosestPlayer.

Version: 1.0.17.1452

- Recompiled against latest experimental build
- Fixed a few over-rides that changed in EntityAliveSDX, and AddBuff()

[Known Issues]

- Pathing Cubing Errors out on save.

[Advanced Items - Scrap]

- Fixed another issue where the temporary recipe was adjusting the master recipe, causing scrap information to be lost.

[Food Spoilage]

- Documenting a global Block Property for FullStackSpoil. This will cause the entire stack to spoil at once, rather than individual.
 - - roperty name="FullStackSpoil" value="true" />
 - This property may be defined on individual items to over-ride the global result.

[ItemValue Clone()]

- Modified the Patch to ItemValue to be a Postfix, and only re-does the Metadata dictionary, if conditions are correct to execute.
 - See previous release notes about the Meta Data for details.

Version: 1.0.15.1402

[Food Spoilage]

- Fixed an issue where PreserveBonus was not being calculated correctly.
- NOTE
- Identified a potential issue with the ItemValue's Meta data is not being properly disconnected when a stack is split.
 - The result of that is when we store the Item's next spoilage tick is shared
- between the stack.
- If a stack is split, the next spoilage tick is still synced up with all stacks from the

original

- When spoilage is applied to the first stack, all child stacks will also spoil at the same rate, regardless of location.
- As a workaround, I have added a new blocks.xml property that patches ItemValue's Clone() call.
- This patch is only fired when Food spoilage is enabled, and only if the item supports food spoilage itself.
 - Default is false, do not apply this patch regardless.

<set

xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='FoodSpoilage']/property[@name='Us eAlternateItemValue']/@value">true</set>

[Advanced Items - Scrap]

- Fixed an issue when scrapping an item, it would allow unlimited crafting of that item.
 - oops.
- Cleaned up code a bit.

Version: 1.0.14.1543 [Anti Nerd Pole]

- Fixed an issue where a block was consumed on a failed placement.
 - Still needs testing on MP.

[Lock Code]

- Removed a Debug statement about Mouse 0.

[EntityAliveSDX]

- Added a CanCollideWith() check, from EntityAliveV2.
 - To enable this, set cproperty name="CanCollideWithLeader" value="false" />
 - Default is true, it can collide with leader.

[Food Spoilage]

- Refactored Food Spoilage to use ItemValue's MetaData, instead of UseItem
- Created several helper methods, and cleaned up references
- Updated variables to follow project standards.

Version: 1.0.10.1107

[SCore Utility Settings]

- Added a Sirillion modified window
- Added a toggle to force vanilla lock picking, if Locks is installed
- Added a toggle to force Locks to be used, if installed, regardless of keyboard / controller
- Added a toggle to mute Trader Rekt
- Added a toggle to mute all Trader's voices.

- Added a toggle to mute NPC foot steps
- This screen can be manipulated through xpath to remove features in overhauls that may not be desirable.

[Advanced Lock Picking]

- New-ish UI window for Advanced Lock picks with some cleaner description.
- Added new lines in the blocks.xml to allow customized key bindings
- These are comma delimited list, so you may add more to the list.

cproperty name="Left" value="Keypad4" />

cproperty name="Right" value="Keypad6" />

cproperty name="Turn" value="Keypad8,Keypad5,Keypad2" />

- Defaults are still hard coded:
 - A / D / Space
 - Joy stick support
 - Mouse support Scroll up / down to move, click to try.
 - Follows mouse position as well.

[Challenges]

- Added support for custom challenges
- Features/Challenges
 - Uses a Harmony patch to allow proper checks
- Added new Enter POI Challenge.

POIs can be referenced by prefab name using the prefab attribute.

<objective type="EnterPOI, SCore" prefab="abandoned_house_04"</pre>

count="10"/>

Screen

setting.

POIs can also be referenced by POI Tags.

<objective type="EnterPOI, SCore" tags="wilderness" count="1"/>

Objectives that list both name, and tags, must match both to pass the objective.

<objective type="EnterPOI, SCore" prefab="abandoned_house_04"</pre>

tags="wilderness" count="1"/>

[Auto Redeem Challenges]

- Removed a check on the MinEventActionAutoRedeemChallenges that was checking if there was any any challenges to redeem
 - In reality, this was just duplicating the same loop as it was going to do anyway.
 - Added Harmony Patch and cvar for AutoRedeeming, available through the SCore Utility

[Disable Flickering]

- Added a Harmony patch to disable flickering lights and lightening flashes.
- See Config/blocks.xml to toggle on or off.

[Block Configuration]

- Added a new optional parameter to CheckFeatureStatus().
- Defaults to false, which is typical behaviour of checking the Configuration Block for the
- If true is passed as the third parameter, then it'll check the local player's cvar. public static bool CheckFeatureStatus(string strClass, string strFeature, bool

checkCVarFirst = false)

- This is useful if there's a feature you want to expose to the SCore Utility Settings screen

[Transmogrifier]

- Added a FastTag check for Crawler to exclude them

[TriggeredSDX]

- Fixed a typo that could cause a null ref if a property was not specified
- Added support for passing cvar from player to animators

cproperty name="CopyCVarToAnimator" value="cvar1;cvar2;cvar3" />

- This will loop around the animator, doing a SetFloat() on the animator, using the cvarname, and cvar value.

[ToggleButtonCVar]

- Added a new controls.xml entry for ToggleButtonCVar
- This allows you to define a cvar and have it tied to a cvar on the local player
- This is used in the SCoreUtilities to allow adding toggle buttons quicker, without modifying

c# code.

- Add in a new toggleButtonCVar to SCoreUtilities window.

<togglebuttonCVar name="xuiSCoreUtilsLockPick" caption_key="xuiSCoreUtilsLockPick"
cvar="LegacyLockPick"</pre>

tooltip_key="xuiLockPickingToolTip" width="290" height="32" depth="3" />

Version: 1.0.5.826

[Farming]

- Added code to disable sound from a sprinkler when being destroyed.
- Merged Yakov's changes for optional setting for Sprinklers to require to be connected to pipes to work.

[TriggeredSDX]

- Cleaned up class a bit
- Fixed an issue where the prompt would not show up when needed.

[Spherell Peace of Mind]

- Merged Spherell PG13 into Peace of Mind modlet
- Mutes Rekt's audio to clean up his abbrasive attitude
 - This was easier than trying to go through each of his audio dialogs, and finding

out which ones

where least offensive.

- Removed Noose blocks, replacing them with Air.
- Changes the Party Girl's model to be that of Marlene's.
 - Quests, Challenges, etc are still working.
- Removed the block with bodies hanging from pillar.
- If 0-SCore is available, flickering / pulsating lights will stay constantly on.
- Removes the lightning flashes.

Version: e1.0.1.1224

Available: https://github.com/SphereII/SphereII.Mods/tree/1.0e

- Initial release of 0-SCore for 1.0 experimental.
- There is probably a TON of broken stuff still
- Overhaulers can start to consume and test out their features.

[1.0 Port]

- Update public field changes in the console commands
- Update many FastTags
- Removed UMA Patches
- Probably much to do

[Fire Manager]

- Converted CheckBlocks into a coroutine.
 - Will process 10 blocks per frame now.

- Changes are still distributed to all clients at the same time
- Added a rainfall check.
 - Gives a bonus to extinguish chance when raining.
 - Doubles the Change To Extinguish.
 - This might not stay.
- If FireSound is set to None, then no sound will play.
- Changed CheckFireProximity to default to -1 if not close to fire.

[MinEffect]

- Added an AutoRedeemChallenges mineffect. Add to something like buffstatus01
- Auto redeems all completed challenges.
 - <triggered_effect trigger = "onSelfBuffUpdate" action="AutoRedeemChallenges,

SCore" />

screen.

[Remote Crafting / Repair]

- Updated code to use the TEFeature for lootable
- Cleaned up repair code

[skipnewsscreen]

- Added command line parameter to skip starting news screen
 - -skipnewsscreen
- When the score's -autostart command argument is used, it will also skip the news

[Powered Workstation]

- Adjusted fuel checks on wireless power feature.
- If there's alternative fuel, such as wood, this will be used as a priority.
- If there's no alternative fuel, then it will check for wireless power.
 - If wireless power is found, then burn time will be set to 15f.
 - If a wireless power is not found, then burn time will be set to 0.

[Spawn Entity On Death]

- Fixed an issue where, when using an entitygroup, was always picking the first entry

Version: 21.2.205.1412

[Fire Manager]

- Adjusted the random expiry time for extinguished smoke.
- Removed an additional RemoveFire() from the Extinguish MinEffect.
 - It was removing the fire, then extinguishing the fire, which also removed the fire.
- Fixed an issue where resetting a POI with a fire trap on would extinguish the fire trap, although keep its damaging effect.
- Changed the SetBlock to check if the burning block is in the Fire Map before resetting it's particle.
- This may have a side effect where there is a potential that not all fire will be extinguished from a quest-resetted POI.

[Powered Workstation]

- Removed a check on if the current fuel is below 0.5.
- Powered workstation will now check on each Update Tick, and add 15 fuel
- Removed a call to get the block from the chunk position, rather than using the locally available block information.

[Spawn On Death]

- The Spawn on Death hooks have been expanded to support passing cvar and buffs over to the new entity.
 - This change also introduces a new method to spawn entities that need this functionality.
 - The following new properties are supported on the source entity (ie, the entity that is

dying)

```
<!-- Spawn in using a method from FuriousRamsay to simplying spawning -->
                      <!-- This can be set without actually copying over cvars and buffs -->
                      cproperty name="SpawnOnDeathAltSpawn" value="true" />
                      <!-- If any of the following properties are not found, then nothing is done for them -->
                       <!-- Copy all cvars over from the source to the new entity. -->
                       cproperty name="SpawnOnDeathCVarFilter" value="all" />
                       <!-- Copy all cvars that contain the word guppy. Position of the * does not matter.
It's a contains check. -->
                       cproperty name="SpawnOnDeathCVarFilter" value="guppy*" />
                      <!-- Copy all buffs over from the source to the new entity. -->
                       cproperty name="SpawnOnDeathBuffFilter" value="all" />
                       <!-- Copy all buffs that contain the word guppy. Position of the * does not matter.
It's a contains check. -->
                       cproperty name="SpawnOnDeathBuffFilter" value="guppy*" />
                      <!-- Both style of filters are comma delimited. -->
                       />
```

Version: 21.2.170.702

[Fire Manager]

- Fixed miswording on comment on smoke particle
- Made a change to particle rotation in an attempt to fix sideway smokes.
- Changed the ordering of fire/smoke particles to read RandomParticles first, then checks if blocks / materials had overrides
 - Previously, if Random Particles was used, they would over-ride individual blocks
 - Documenting that RandomFireParticle and RandomSmokeParticle exist.
 - This is the documentation evidence.
 - This will randomly select one of the particles in each one to display.
 - You may use "NoParticle" to add a blank, ie skip, a particle.

<append

[Quests]

- Fixed an issue in the ObjectiveGotoPOISDX where the random prefab name was being selected at initialiation.

rather than each time the quest is triggered.

- Before searching for the prefab, if the property name PrefabNames is set, it'll randomly pick one.
 - Removed extra debug logs from ObjectiveBuffSDX

Version: 21.2.151.1612

[Quests.xml]

- Fixed an issue where a starting comment was missing.

[Encumbrance]

- Added a check for mods on items, and calculate those item weights appropriately.
- Refactored a bit of the code to clean it up, and reduce duplicate checks.

[One Block Crouch]

- Added a Is Crouched check before lowering the camera.

[Code Added, but not compiled]

- NPCv2 code has been added, but excluded from building

Version: 21.2.101.931

[NPCs]

New Property in the blocks.xml called EnemyDistanceToTalk, under AdvancedNPCFeatures.

cproperty name="EnemyDistanceToTalk" value="10" />

This value is used to determine how close an enemy needs to be, to block the NPC from talking with you.

A value of 0 or less will block this check, allowing you to talk to NPCs in all

conditions.

A value of 5 will block NPC dialog options if an enemy is within 5 blocks of it. Default is a value of 10.

[Dialog]

Added new requirement to dialog called EnemyNearBy. This is meant to work in conjunction with the EnemyDistanceToTalk,

allowing you to disable an enemy check for the overall dialog, while also providing the ability to hide certain dialog

responses that may not be appropriate when in a battle.

This will show the requirement if it the enemy is within 10 blocks.

crequirement type="EnemyNearby, SCore" id="10" requirementtype="Hide" />

This will hide the requirement if it the enemy is within 10 blocks.

requirement type="EnemyNearby, SCore" id="10" value="not"
requirementtype="Hide" />

[Remote Crafting]

Added additional check for EnemyNearBy for remote crafting to take in consideration if a player is nearby,

if they are in the same party, or are friends with each other.

Version: 21.2.80.1026 [NPCs]

- Merged khzmusik's fix to protect a player's followers from their own explosions.

Version: 21.2.78.935

[Lock Pick]

- Removed Debug.Log in Lock picking, and replaced with a Logging check to display.

[Particle Attractor]

- Refactored FromAttackTarget to enhance functionality.

Example:

Minimum Example:

<triggered_effect trigger="onSelfBuffUpdate"

action="SetParticleAttractorFromAttackTarget, SCore" />

Typical Example:

<triggered effect trigger="onSelfBuffUpdate"

action="SetParticleAttractorFromAttackTarget, SCore" cansee="true" />

Full Example:

<triggered_effect trigger="onSelfBuffUpdate"

action="SetParticleAttractorFromAttackTarget, SCore"

cansee="false" <!-- Does the zombie need to see the player? -->

<!--

speed="10" <!-- Optional. Default to 5. How fast the particle

should go. -->

transform="Particle attractor" <!--

Optional. If not specified, it'll look for the first particleAttractorLinear script.

Searches through the entire zombie for the transform with this name.

It actually searches for all Particle Systems, then checks the transform name

so the effect is the same.

** If the particleAttractorLinear does not appear on the transform, it'll add it **

-->

target_transform="hips" />

Optional. If not specified, it'll attach to the Head.

This allows you to specify a target transform, which transform to attach the particle too.

If this transform does not actually exist, it won't attach to any.

"head" and "hips" are shortcuts to GetHeadTransform() and GetPelvisTransform().

All others search. -->

Version: 21.2.54.843

[Disable Flickering Lights]

- Added new Feature for Flickering Lights, and a matching Config Block Entry
- This will change all the Flickering lights to be static lights.
- This will disable lightning effects.

<se

xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='AdvancedPrefabFeatures']/property[@name='DisableFlickeringLights']/@value">true</set>

[Peace Of Mind 21.2.1.0]

- Updated Peace of Mind to only remove the Noose block with an air, leaving the other ropes available.
 - Added Disabling of Flickering lights, if 0-SCore is available.

- If SCore is not available, it'll display a harmless warning.

Version: 21.2.52.1028 [Dialog]

- Merged in khzmusik's dialog changes:

- Added new DialogRequirement of IsSleeper

Requires that the dialog's NPC must have been spawned into a prefab

sleeper volume.

- Added `IDialogOperator` interface for requirements and actions that accept an

"operator" attribute

- Updated Harmony patches to `DialogFromXML` to use the interface

- `DialogActionAddCVar`, `DialogRequirementFactionValue`,

`DialogRequirementHasCvar`, and `DialogRequirementNPCHasCVar` now all implement that interface

- Major refactoring of `DialogRequirementNPCHasCVar`
- `DialogRequirementHasCVar` handles "not" operator better
- `DialogRequirementLeader` supports "not" as a value, which checks that the NPC is not hired by the player talking to it (as opposed to "HiredSDX" which just checks whether or not the NPC is hired by _any_ player)

- Added XPath in `dialogs.xml` that will test the various values of "HasCVarSDX" (the XPath is commented out)

[Entity Alive SDX]

- Updated WeaponSwap to force an avatar update on placement

- It was observed that NPCs were not full initializing their weapons properly when

the weapon

was using a different hand to hold it in.

[Particle Attractor]

- Added new feature "Particle Attractor"

- This allows running a particle between two points, one being the source entity and then the target entity.

- The script runs on the zombie, and needs to know a "target" to set the destination for the particle.

- To add the particleAttractorLinear to the zombie, the following line can be used:

<!-- if the zombie has the "Particle attractor" transform, it'll attach the

script to it. -->

your use case.

<triggered_effect trigger="onSelfBuffStart" action="AddScriptToTransform,

SCore"

transform="Particle attractor" script="particleAttractorLinear,

SCore"/>

- Added 3 new MinEventActions to support this feature, along with examples:

- Note: the trigger="" is just used as an example. Add the appropriate trigger for

<!-- If the zombie has an in-game attack target, such as a player, this will set the "target" in the particleAttractorLinear to it. -->

<!-- This will cause the particle to go from the zombie to the target, ie, the player. --

<!-- An optional cansee flag can be toggle, which will do a visibility check before applying the target -->

<triggered_effect trigger="onSelfBuffUpdate"
action="SetParticleAttractorFromAttackTarget, SCore" cansee="false"/>

<!-- This MinEvent runs on the Player, and can use the position AoE to find zombies in range which may have

an ParticleAttractor. If a zombie is found with the ParticleAttractor, it'll set the player as the target. -->

<triggered_effect trigger="onSelfBuffStart" action="SetParticleAttractorFromPlayer,

SCore"/>

<!-- This MinEvent runs on the zombie, and can use the position AoE to find a

player in range.

If the zombie has a ParticleAttractor, it'll set the first player it finds as the

target. -->

walls.

<triggered_effect trigger="onSelfBuffStart"

action="SetParticleAttractorFromSource, SCore"/>

Version: 21.2.49.751

[Dialog]

- Added new Dialog Requirement that checks cvar on the NPC.
- Follows the same format as the Player's HasCVar check.

[NPCs]

- Adjusted the TeleportNow feature to be a bit more fault tolerant from teleporting NPCs into
 - Added new cvar to a few of the order buffs:

<triggered_effect trigger="onSelfBuffStart" action="ModifyCVar"
cvar="Guarding" operation="set" value="1"/>

- This is meant to set a flag so we know if the NPC is supposed to be guarding, and will ignore commands.

[MinEvent]

Added new Min Event called TeleportNow

<triggered_effect trigger="onSelfBuffUpdate" action="TeamTeleportNow, SCore" />

- Any NPC within a 50 block range will teleport to you immediately. This is a short cut to the Come Here! command

in the Companion screen.

- If the NPC has the Guarding cvar, it will ignore this order.
- Added buff buffTeleportCooldown after TeleportNow as a cool down. Default is 5 seconds.
- Added item scoreTeleportNow for an example.

Version: 21.2.47.1657

[MinEventActionOpenWindow]

- To Better support modders' use of the Companions screen, a new minevent has been created.

<triggered_effect trigger="onSelfPrimaryActionEnd" action="OpenWindow, SCore"
window="SCoreCompanionsGroup"/>

- This will open the xui.xml's Window Group
- A test item called scoreOpenNPCWindow has been added showing an example:

</effect_group>

Version: 21.2.47.1616

[XUiC]

- Added a "Come Here!" to the list of commands.
 - This is a Range-based, as are the other commands.
 - It is intended to be used when the NPC is in a different room than you, and are

stuck.

- This applies the Follow Buff to the NPC, so if they were told to Stay previously,

they'll still come to you.

- This teleports to the Player position + 1. It's a very tight teleport.

Version: 21.2.46.1336

[Fire Manager]

- Added a check in Chunk.SetBlock(), that if the SetBlock is from a POI Reset, to remove the fire from any blocks that may be burning.

[EntityAliveSDX]

- Added a buff check in LeaderUpdate() to prevent a timing issue when you are dismissing an NPC

[XUiC]

- Shrunk the Utilities screen, and moved it to the center of the screen.
- Added new Companion Screen. These are defined in the xui.xml.
- Access to these screens are available in the Esc menu in-game.
- Companion screen shows all hired NPCs, their name, their distance, and allows you to give them orders.
 - Orders are based on range, roughly 50 blocks.
 - If the NPC is more than 50 blocks away, the commands are ignored.
 - Dismissing an NPC through this screen is instant, and has no range check.

Version: 21.2.44.1541

[Fire Manager]

- Another fix for Fire not damaging players on a dedicated server
- Fixed various typoes in a single debug log caused by a stroke.

[EntityAliveSDX]

- Removed one of the checks preventing you from talking to an NPC that was in battle.
 - Previously, there was a check to see if the NPC had an attack target. This was

removed.

- Another check, right after that one, is still active. It scans to find enemies within 10 blocks, and prevents talking then.

[NPC]

- Small tweak to the CheckBlocked() to determine if the NPC will jump off the building after you.
- Previously, this just inched the NPC forward until they gracefully fell, but it may not have been enough in all cases.

Version: 21.2.42.1753

[XUiC]

- Added new XUiC_SCoreUtilities controller to allow personalization of player experiences

- Personalization is limited to SCore features that some users may not like, and

offer

no benefit other than comfort.

- Currently feature:

The ability to turn off the Lock MiniGame, if Locks is available. The ability to turn off hired NPC foot steps, so you aren't hearing it

constantly.

- By default, this screen is added to the inGameMenu window.
 - Pressing ESC to see the Exit / Option window will show it.

[Farming Manager]

- Adjusted GetWaterPercent() to be a lower value to determine if its a plantable area.

[Fire Manager]

- Another potential fix for fire not hurting a player when in a multipler server.

[EntityAlive SDX]

- -Merged in Pull Request 85 from khzmusik
- Remove the prompt to talk with enemy NPCs
- New blocks.xml Property to
 - <!-- Set to true if some enemy NPCs are "advanced" NPCs that use

EntityAliveSDX. -->

cproperty name="AdvancedEnemyNPCs" value="false" />

- When enabled, it'll remove the prompt to talk to non-friendly NPCs.

Version: 21.2.40.1024

[EntityAliveSDX]

- Fixed an issue with Weapon Swapping that would get triggered when an NPC only has an HandItem specified, and not

given an item through ItemsOnEnterGame.

- This generated the "Item Not Found" error.

[Fire Manager]

- Blind potential fix for fire not hurting a player, when in a Multiplayer server.
- When the fire buff is applied now to the player, the player itself will be the source of the damage (instigator id).

Version: 21.2.37.1618

[TileEntitySign]

- Fixed an issue where png files were not being displayed.

Note: Gifs hosted on Imgur may not work. This is being looked at.

[EntityAliveSDX]

- Fixed an issue where the UseTimes on an item was not being preserved by an NPC
 - This caused the UseTime to be reset when you pick up and place down an NPC.
- This was mostly evident by giving an NPC a partially spoiled item, then picking up and placing down the NPC to reset the spoilage counter.
 - This was actually fixed in 21.2.31.1132

Version: 21.2.31.1132

[EntityAliveSDX]

- Added new property StartingItems to specify items that will appear in the NPC's loot container on spawn in.

Example:

property name="StartingItems"

value="drinkJarBoiledWater=2,foodCanChili,medicalFirstAidBandage,meleeToolTorch,keystoneBlock,noteDuke01"/>

- Once added, it sets a cvar called "InitialInventory" to flag it was already done.
- Also updated DeployNPCSDX to support this.
- Fixed an issue where weapon swap got broken over a bad check

If the property is not there, it will use the default spherePickUpNPC.

[DeployNPCSDX]

- Added 2 new properties for the PickUp Item, to allow placing down an NPC pre-configured.
 - This will allow you to recieve an NPC as an item.
 - If the AutoHire property is set to true, it will auto-hire the NPC to the player

placing it down.

- If the AutoHire property is not set, the NPC will not be hired on placing it down.
- If the property EntityName is set, it will assign that name to the NPC.

Example:

[Fire Manager]

Added a check to disable fire when Particle index is set to 0. if (___explosionData.ParticleIndex == 0) return;

Version: 21.2.27.1542

[Trader Protection]

 Added a check to allow you to talk to the trader during the night, when trader protection is off.

[Portals]

- Added a check for invalid portal positions

Version: 21.2.18.1001

[Trader Protection]

- Added a check to disable Trader Teleport when crossing the bounds of a trader.

[Portal]

- Added the ability to define a buff to activate the portal.
 - cproperty name="ActivateBuff" value="myBuff" />
- If this buff is defined, the buff must be active in order to use the teleport.
 - When denied, the Portal will chime a Denied sign, and show the localization entry

for xuiPortalDenied.

- If the Localization entry for xuiPortalDenied is an empty string, it will not chime, or show a tool tip on denial.

- For Powered Portals, this check happens after checking if the portal is powered.

[EntityAliveSDX]

- Added a sanity check for loot container size.

[Spook]

- Fixed an issue where the sky was not as dark as it was supposed to be.

Version: 21.2.11.1647 [Fire Manager]

- Fixed an issue where fires could not be extinguished on servers.
- Fixed a potential issue with an excessive amount of net packages being sent.

[NPC Weapon Swap]

- Changed NetPackage for weapon swap
- Added new helper method in EntityAliveSDX to better handle it
- Added a preventative null check on FindWeapon()

Version: 21.2.1.1646 [Rebuild]

- Re-built and re-linked against Alpha 21.2

[Remote Crafting Utils]

- Fixed a change in the TryStackItem in the loot container.

Version: 21.1.111.950 [Merging changes]

The EntityName property setter is called in (at least) two cases for NPCs:

During EntityFactory.Create, when it is set to the entity class name When the NPC entity is being re-created after being picked up and put down

We should not set the private _strMyName in the first case, since that erases the random name chosen from the "Names" property in the entity class XML.

But in the second case, the name that is being set was previously taken from the EntityName property, so should be the correct value chosen from "Names".

Version: 21.1.110.1032

[Buff / Quest From Sounds]

- Fixed an issue where buffs / quests were not being properly read by sounds.

[Hire CVars]

- Added new cvar "CurrentHireCount" to keep track of the number of hired NPCs.
- This is cvar is updated when:
 - An Entity is hired, the CheckStaleHires is ran, updating the cvar.
 - When the MinEvent for ClearStaleHires fires:
 - <triggered_effect trigger = "onSelfBuffUpdate" action="ClearStaleHires,</pre>

SCore" />

[Quest Objective Block Destroy]

- Fixed an issue because I was calling the wrong net package, and changes were not being distributed properly to the party.

Version: 21.1.97.930 [Farming] - Fixed an issue where valves did not work properly on dedi

[Dialog]

- Added support to trigger an action from a statement, rather than only a response.

[RequirementInVehicleSDX]

- Added a fix for the name space.
 - This is waiting for a fix in vanilla before it functions.

[Inert]

- Fixed an issue where Inert was making invisible entities when paused.

Version: 21.1.89.1227

[Game Events]

- Fixed typo in Vehicle.
- Added RequirementInVehicleSDX game events that takes a tag.

I don't even know if you can make this call from here. But the script is written.

Version:21.1.89.946

[UAI]

- Fixed an issue where NPCs could loot, but wouldn't keep any of the items it looted.
- Rolled back UAI change that caused the considerations to be calculated differently.

[Game Events]

- Added RequirementInVehicleSDX game events that takes a tag.

I don't even know if you can make this call from here. But the script is written.

Version: 21.1.73.1834

[MinEvent 1

Added new MinEventActionConverItem (Completely Untested. Should be okay. Probably.)

The intended usage for this is to allow a limited use item that is not connected to

the durability,

and allows it to change into another item.

I didn't even test this one.

This MinEvent will add a "MaxUsage" meta data entry using MaxUsage as a

starting value.

Each time the event is fired on the item, it will count the usage down.

Not even joking.

When the item is down to 0, it will turn the item into the specified downgradeltem.

Example:

<triggered_effect trigger="onSelfPrimaryActionEnd" action="ConvertItem, SCore"
downgradeItem="meleeClub" maxUsage="10" />

[UAI]

- Fixed an issue where the UAI considerations were a bit off. Thanks khzmusik

[Tools]

- Added Unity Debugging DLLs for Alpha 21.x. Thanks to Yakov.

Version: 21.1.56.1705

[Requirements]

Added invert support for RequirementIsBloodMoon.

<requirement name="RequirementIsBloodMoonDMT, SCore" invert="true" />

[Farming]

- Added an additional check to see if a farm plot is empty.
- Updated the UAI Farming Task
 - Consumes seed items in the inventory now
 - Resets farm plots after they are all visited, so that the farmer will revisit them
 - Fixed an issue where Farmers won't tend to a farm plot that you have harvested.
 - Fixed an issue where the farmer wasn't looking at the plant correctly enough
 - Fixed an issue where the farmer was too far away from a farm plot to visually have

an effect on it.

working on.

- To help with testing, the farmer will place the smoke particle on the farm plot its currently
 - This will be removed after some tests are complete.

[Bloom's Family Farming]

- Updated the MyFarmer's test entity properties with notrample tag, more UAI, and allow spawns from menu.

Version: 21.1.55.858

[Drop Box Storage]

- Fixed a bug where items were not removed from drop box in multiplayer

[Spawn On Death]

Added new Property to allow leaving of the body when spawning a new entity.

cproperty name="SpawnOnDeathLeaveBody" value="true" />

Version: 21.1.53.1324

[Trader Protection]

- Added a new option to allow placing blocks within a Trader Area, under the AdvancedPrefabFeatures ConfigBlock

cproperty name="AllowBuildingInTraderArea" value="false" />

- Disable Trader Protection must be set to true, in addition to this setting, to allowing placing of blocks.
- Land Claims are still denied from being claimed, to prevent hijacking of a trader by a player.

Version: 21.1.52.1544

[Enhanced Signs]

- Fixed hard crash when an invalid URL was used.

Version: 21.1.52.1357

[Food Spoilage]

- Added support for SpoiledItem's value being "None" to skip downgrading the item into something else.

cproperty name="SpoiledItem" value="None" />

Version: 21.1.51.1344 [EntityAliveSDX]

- Re-Added Exp Sharing.

- If the Hired NPC has a Player, but the Player does not have a Party, the NPC will share exp directly with that player.
 - If the Player has a party, the exp will share with the entire party.
 - Fixed an issue with weapon swapping.

[Broadcast Storage]

- Drop Box(tm) Support

- Added the ability to set up a container to be considered a drop box to distribute items to other storage boxes.

- Any container with the Property "DropBox" with a value of true is handled

specially.

cproperty name="DropBox" value="true" />

- Optionally, there is a new block class that can be used.

<blook name="cntSphereDropBoxTest">

<!-- Doesn't need to be signed container, but might make the most

sense -->

<!-- Default is 100 ticks -->

cproperty name="UpdateTick" value="200" />

<!-- Optionally trigger the distribution when the user closes the box

-->

cproperty name="DropBox" value="true" />

<!-- Optional Distance this box can scan to redistribute. --> <!-- If not defined, the value from AdvancedRecipes's distance is

used. -->

cproperty name="Distance" value="30" />

</block>

- Blocks that use the DropBoxContainer class will trigger redistribution at

regular intervals,

in case the player makes changes to surrounding boxes.

- When this type of container is closed, it will scan the local TileEntities using the same rules as the Items From Containers for crafting.

- Rules include broadcasting is enabled, player is allowed to access, if the container is not opened, and within the distance.

- Other containers with the property "DropBox" are ignored as potential $% \left(1\right) =\left(1\right) \left(1\right) \left($

targets.

- It will try to fill any partial stacks.
- If existing stacks are full, it will add a new stack to the container.
- Any items that cannot be added, either partially or fully, will be left in the

DropBox.

- If you are adjust your storage containers to add items, the DropBox must be opened, and closed for it to distribute to the new containers.

Version: 21.1.50.839

[Broadcast Storage]

- Removed pre-check cuz I'm dumb, and introduced a free-crafting mechanic.

Version: 21.1.48.1604

[Broadcast Storage]

- Added a few null checks for when player backpack or tool belt may not be available.
- Added a pre-check if the player has the required items in their backpack / tool belt, that it'll use those first
 - Should provide better performance, and protect against the above mentioned null

ref.

Version: 21.1.48.955

[Broadcast Storage]

- Fixed another issue where toolbelt items were not being consumed when riding in a vehicle and crafting.
 - The original code would read the localPlayer's bag and toolbelt slots for items.

These were empty.

- The fix was to pass the bag and toolbelt from the XUiM_PlayerInventory

Version: 21.1.47.1805

[Broadcast Storage]

- Fixed another issue where materials would not be returned upon cancellation when pulled from container
 - Fixed another issue where crafting would be approved without all the ingredients.

Version: 21.1.39.1623

[Water System]

- Fixed an issue where the block's custom description wouldn't show up depending on
- Fixed an issue where water range wasn't being properly used for crops.

Version: 21.1.39.1422

DisplayInfo

[Broadcast Storage]

- Fixed an issue when a cancelling a recipe that had an ingredient with a quality value would result in no returned items.

Version: 21.1.34.952

[EntityAlive SDX (NPCs)]

- Fixed an issue where inventory was not being preserved or distributed to clients.
- Code clean up on class
- Fixed an issue where the NPC could continue to use a weapon that no longer exists in thein loot container.

[SCore Integrity Check]

- Added a new feature to SCore's ModEvents.Init() to provide a quick look integrity check.

Intention:

- This checks all the modlets installed locally.
- It's intended to be a Quick Look to see if an overhaul is installed correctly.
- Each release of an overhaul would have a unique, and repeatable Hash Code.
- A Hash Code is a 10 digit numeric code.
- If a modlet is added, removed, or is a different version, the Hash Code will be

different.

- This will not stop a game from loading (You do you, boo).

What It Checks:

- This will add new entry's to the game load, printing after the "Loaded Mod:" step.
- This will check, and print the path, if there's a Mods folder in the UserDataFolder

or local folder.

- If there's a mods folder in both, it will display a warning in the log file: WARNING: Loaded Mods From two Folders!
- This isn't a fatal warning, but rather helps you at a glance to see if they are potentially loading mods from two different places.
 - Loading Mods from two locations is not an error, or bug.
 - Some people install a mod to UserDataFolder / Local Mods folder and

forget about it.

- It will loop around all Loaded Mods, do a GetHashCode() on the Modlet Name and

Version number.

- GetHashCode() returns an 10 digit numeric code.
- All the HashCode for the Loaded Mods are added to a string.
- At the end, it will print a GetHashCode() from the combined string, giving a

summary.

Example:

2023-09-02T07:49:59 4.454 INF SCore:: Checking Installed Modlets... 2023-09-02T07:49:59 4.454 INF Loaded Mods From C:/Program Files

(x86)/Steam/steamapps/common/7 Days To Die/7DaysToDie_Data/../Mods

2023-09-02T07:49:59 4.455 INF Modlet List Hash: 1788120558

2023-09-02T07:49:59 4.455 INF SCore:: Done Checking Installed Modlets

[UAI]

- Aded the consideration / Task to the VC Proj of SCore

[Build Tooling]

- Added a new obj Clean Target to be triggered after "AfterBuild".
- This will remove the contents of the obj file after the building / linking.
- Any project that loads the Directory. Build. targets file as a reference.

Version: 21.1.24.928

[EntityEnemySDX]

- Integrated khzmusik's changes
 - Added a EntityEnemySDX check for an AvatarController Patch
 - Rebased EntityEnemySDX against EntityHuman

[UAI]

- Integrated khzmusik's changes
 - Added new Consideration: HasinvestigatePosition
 - Added UAI Task: ApproachSpotSDX
 - Cleaned up UAI Task AttackTargetEntity

Version: 21.1.22.727 [Transmogrifier]

- Moved the crawler gate up a bit, as it was getting random walk types when it really

shouldn't have.

Version: 21.1.21.1021

[UAI]

- Removed Debug statement for UAIAttackTargetEntity

[DecoAoE]

- Added additional code in an attempt to make them quest resets work.
 - Further updates may be needed

Version: 21.1.20.1053

Note: When reference an asset bundle from another modlet, you must use the Name value from the ModInfo.xml

For example:

```
<xml:
```

<Name value="0-SCore_sphereii" />

<Author value="sphereii" />

<Description value="SCore Mod" />

<DisplayName value="0-SCore" />

<Website value=""/>

<Version value="21.1.20.945" />

</xml>

<set

xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='FireManagement']/property[@name='FireParticle']/@value">#@modfolder(0-SCore_sphereii):Resources/gupFireParticles.unity3d?gupBeavis06-HeavyLight</set>

[Water System]

- Fixed a possible null ref when reading from a quest-reset
- Added a OnBlockLoaded for the sprinkler.

[NPCs]

- Disabled a call that created a player party if they hired an NPC, potentially causing other party invites to fail.

[UAI]

- Added a + 1 to the y value when doing the IsInside consideration to give it a chance to get out a block or entity to do the check.

[Deco Block]

- Added a ischild check for multi-dim blocks
- Added a IsTileEntitySavedInPrefab() call to persist in resets

Version: 21.1.16.1542

[NPCS]

- Fixed an issue where the NPC wasn't facing at its target
- Fixed an issue where a bag drop may throw null ref.
- Fixed an issue where the NPC wouldn't turn around to face the target, when backing up.

Version: 21.1.12.1115

[NPCs]

- Fixed an issue with a null ref on the read/write for loot containers
- Fixed an issue where NPC backpacks weren't preserving on dedi.

Version: 21.1.10.1805 (For A21.1 stable)

[NPCS]

- Quite a few failed attempts at making inventory persists reliably / weeapon select on

[Locks]

- Fixed an issue where players could not lock their own doors.

Version: 21.1.3.950

respawn

[NPCs]

- Fixed an issue where the NPCs were not preserving their inventory (for realisies?)

Version: 21.1.1.830

[NPCs]

- Dialog Fixed for the PickMe Up functionality.
 - Now works on dedicated and single player.
- Dialog fixed for weapon swap.
- Fixed an issue where NPCs were not preserving their inventory
- Fixed an issue where the NPCs were not respawning with the right weapon.

[Trader Protection]

- Re-implemented a Remove Trader Protection Patch
 - Allows compound to be destructive
 - Traders never close
 - Zombies can wander into compound, but do not spawn in the compound.

- Quests work.

[MinEvent]

- Added AnimatorFireTriggerSDX
- It will recursively look for all animators on each target, firing the trigger one each animator.

Example:

<triggered_effect trigger="onSelfBuffStart" action="AnimatorFireTriggerSDX, SCore"
trigger="triggerName"/>

[One Block Crouch]

- Adjusted the crouch adjustment from -0.40 to -.31f. Camera will be slightly higher, but still avoid clipping
 - Added a safety check to not run if player is in a vehicle.

[Power Block]

It allows to use the wire tool anywhere on a MultiDim Block - from ocbMaurice cproperty name="MultiDimPowerBlock" value="true"/>

Version: 21.0.51.708 [Portals]

- Added all portals to be chunk observers.
- Updated the teleport position to be one block above the portal itself.

Version: 21.0.49.1542 [Portals]

- Fixed an issue where portals would error out on game reload, without exiting the game completely.

[Documentation]

- Removed documentation to save on space.

Version: 21.0.49.958

[HoldingItemDurability]

- Commented out debug statement

[Locks]

- Fixed an issue where cop cars would triggers errors when lock picking, resulting in no loot.
- Added a check for LockpickDowngradeBlock property. If it's a non-air block, it will use that downgrade option instead.

[Remote Crafting]

- Fixed an issue when a recipe required multiple ingredients, not all ingredients would be consumed.

[Caves]

- Flipped the conditional check for the MinThreshold; it does opposite of what it did before.

[UAI]

- Merged in changes for the UAI tasks to trigger alert, sense, and give up sounds.

Version: 21.0.46.2014

[EAI]

- Remove debug statement

Version: 21.0.46.1832

[Remote Crafting]

- Added null checks to items before trying to use their upgrade sound.

- Fixed an issue where item dupes were possible.
- Items are now removed properly from the backpack, toolbelt, then from Tile entities correctly.

[Bugs]

- Fixed an null ref on the animator when playing a game, exiting to main menu, then reloading.
 - Fixed a null ref when exiting the game when a drone and hired NPC are available.
 - This was due to the fact that NPCs were being added as an OwnedByPlayer, and

the DroneManager

did not consider it would have been a non-vehicle entity.

[Fire Manager]

- Disabled fire manager in prefab editor / play testing worlds.

[Better Life]

- Some fixes for the fish swimming are in the SCore, with some modification to the entityclasses.xml
 - EAI isn't used by fish, so they do not need to be defined.

[UAI]

- Updated the IsInFront check to make sure the NPC is facing a target correctl, replacing the old, buggy one.

Version: 21.0.45.1205

[UAI]

- Adjusted the EntityUtilities.Stop() to have an optional parameter: full, default is false.
 - When a full stop is required, it will zero out the animator's speed / strafe
 - Full is triggered when Dialog is open, and when the Idle Task is triggered

[Animator]

- Added a postfix to adjust the animator's speed / strafe when dealing with very small numbers.

[Better Life]

- Changed MecanimSDX to AvatarAnimalController to fix the animator bug.
- Could still be issues

Version: 21.0.42.1007

[Dialog]

- Added new Dialog Requirement For Tag. This will check the listed tags in the value against the NPC you are talking to.

<requirement type="HasTag, SCore" requirementtype="Hide" value="zombie" />
<requirement type="HasTag, SCore" requirementtype="Hide"</pre>

value="zombie,human" />

Version: 21.0.41.1943

[Remote Crafting]

- Fixed an issue where items weren't being properly consumed from the backpack / toolbelt.

Version: 21.0.39.859

[UAI]

- Fixed an issue where the NPCs would shuffle in place
- Fixed an issue where non-hired NPCs wouldn't face you.

Version: 21.0.38.1508

```
[Caves]
                - Added new property to determine when a deep cave threshold would be considered
                                <!-- Spawning and cave decorations would be considered _Deep when at
this level or below -->
                                <!-- This setting is used for spawning as well -->
                                - Added new property to determine how deep the first cave level is from the top
                                <!-- Determines how far below the surface to begin spawning caves. -->
                                cproperty name="StartCaveThreshold" value="15" />
               - Added new property to determine minimum terrain height to start generating caves
                                <!-- Default value is -1, no consideration of terrain height -->
                                cproperty name="MinStartCaveThreshold" value="-1" />
                                <!-- If the terrain height is 40, but the threshold is 41, do not generate a
cave -->
                                cproperty name="MinStartCaveThreshold" value="41" />
               - Fixed an issue where the max levels wasn't being respected.
       [UAI]
               - Cleaned up IdleSDX
Version: 21.0.37.1546
       [Caves]
               - Fixed an issue where caveAir was used instead of regular air, so decorations weren't
being placed.
               - Added arramus' fixes for the prefabs (thanks!)
               - Added new property to to the Config Block:
                       - This will generate caves in all biomes ( after all the other checks for caves are
passed)
                                cproperty name="AllowedBiomes" value="All" />
                       - This will only generate caves in wasteland and pine_rest biomes
                                cproperty name="AllowedBiomes" value="wasteland,pine_forest" />
       [ NPCs ]
               - Expanded the attack angle from -15 and 15 to -30 and 30, to give a wider angle to attack
from.
Version: 21.0.30.1335
       [ Entity Alive Patch ]
               - Added patch from Zilox to fix the animation issue on animals that do not use root motion,
on servers.
       [Fixes]
               - Fixes for the LootContainer's spawn calls, which have seen a parameter change in A21
b232.
Version: 21.0.28.902
       [ Remote Crafting ]
               - Fixed a broken reference to the broadcast button
       [Food spoilage]
               - Integrated khzmusik's food spoilage adaptage to use the ItemValue dictionary.
                       [This change may be a save-breaking change]
       [UAI]
```

- Adjusted the ConsiderationCanSeeTarget to remove the 20 distance change.

- This will now use the CanSee Distance from the entity itself.
- Code formatting clean up for Wander Task

Version: 21.0.24.1146 [Farming]

- Code moved to Features
- Added support for new water system
- Added readme.md description its functionality.

[Remote Crafting]

- Code moved to Features
- Code refactored for clarity

Version: 21.0.22.1422

Introducing the Features Folder

Features folder will contain the harmony and scripts for an isolated feature set, rather than spread across the Harmony and Scripts folder now.

This will help with future extraction into seperate DLLs.

[Locks]

- Fixed Unity crash when pick locking doors.
 - Sound was trying to play on a non-main thread.
- Code moved to Features

[Fire Manager]

- Modified the Walk On Fire trigger to fire off the block, rather than the entity.
- Code moved to Features
- Added documentation to the Features/Fire/Readme.md

Version: 21.0.21.1610

[Broadcast Feature]

- Fixed an issue where the game would allow you to craft if you had a single ingredient.

[UAI]

- Fixed an issue where the NPC would not face you when following
- Added a rotation of 90f in the TaskMoveToTargetSDX for when the entity is blocked.

[NPCs]

- Added yet another fix to the jumping.

Version: 21.0.20.1553 [Dialog]

- Added a toolbar / bag search for the NPCHasItemSDX Condition

[NPC]

- Fixed an issue where the NPC would stare at a dead body
- Added the ability to add items directly into the NPC's private bag slot, defined in the

entityclass.

- If the leader has the cvar "quietNPC" set, the hired NPCs will not make foot steps.
- Added Shared EXP, so hired NPCs will share their exp with you, and the party members.
- Fixed a few issues with angles
- Fixed shared exp with party
- Fixed issue where dead zombies stayed standing

[Broadcast Storage]

- Added FuriousRamsay's suggestion to filter button when in entity or vehicle.

[Console Command]

Created a new console command to set cvar's on the player.
 setcvar <cvarName> <cvarValue>

- To Remove a cvar, set it to 0 setcvar <cvarName> 0

Example:

setcvar quietNPC 1 setcvar FailOnDistanceToLeader 10

[UAI]

- Updated the FailOnDistanceToLeader consideration to check the distance of the target entity, to see if the entity is outside of the allowed range.
- This should prevent the NPC from walking halfway to a zombie, then turning around, as it'd take it out of this range.
 - Updated the FaceToEntity code to try to look at the player a bit more often.
- When the NPC starts the Follow Task, it will clear its attack / revenge targets, as not to obsess over them.
 - Adjusted the yaw and pitch of NPCs to be 8f,8f, which should line them up better.

Version 21.0.15.1058

[Upgrade log]

- Updated all XMLAttributes to XAttributes. Gosh
- Removed QuestTags and converted over to FastTags
- Oh geeze, XMLAttributes are everywhere

[Dialog]

Added a DialogActionSwapWeapon to allow a NPC to change weapon caction type="SwapWeapon, SCore" id="gunNPCPipeShotgun" />

Added DialogActionAnimatorSet to change parameter.

<action type="AnimatorSet, SCore" id="PistolUser" value="0" />

Added a DialogActionRemoveBuffNPCSDX to remove a buff from a NPC

<action type="RemoveBuffNPCSDX, SCore" id="PistolUser" />

Added a DialogActionPickUpNPC, allowing you to pick up an NPC as an Item <action type="PickUpNPC, SCore" />

- Item is hard coded, and defined in SCore's items.xml

Added A DialogActionDisplayInfo to dump the NPCs Buffs and CVars to thelog file. <action type="DisplayInfo, SCore" />

Reminder: Console command dialog or dialogs will reload dialogs.xml without restarting the game.

[EntityAlive SDX]

Added New Feature to allow NPCs to change weapons on the fly.

Added a UpdateWeapon(item) call to allow an NPC to change weapons Added PickUp NPC option.

- This preserves ownership and name of Entity.
- Entity gets created into an items.xml entry (defined in SCore's Items.xml

Re-added Progression for NPCs under the following conditions:

- If they are EntityAliveSDX
- If they do not hava a cvar called "noprogression" with a value greater than 0
- if they do not have a tag called "noprogression"

Fixed an issue where the PhysicsTransform was not active, allowing NPCs to clip inside of each other.

[MinEvent]

Added MinEventActionAnimatorSetFloatSDX Added MinEventActionAnimatorSetIntSDX

- Triggers as UpdateInt / UpdateFloat on the animator, updating the parameter with the supplied value.

- If the value starts with a @, the cvar value will be used.

Example:

<triggered_effect trigger="onSelfBuffUpdate" action="AnimatorSetIntSDX,</pre>

SCore" property="HoldType" value="@WeaponType" duration="1" />

Added MinActionSwapWeapon

Causes the NPC to have the specified Item.

Example:

<triggered_effect trigger="onSelfBuffUpdate" action="SwapWeapon,

SCore" item="meleeClub" />

[Entity Player]

Fixed One Block Crouch to prevent clipping in terrain.

[Winter Project Snow]

- Fixed an issue where terrain was bumpy around POIs when buried in snow (Winter

Project Only)

- Fixed an issue with snow material that caused collapses.

[Caves]

- Added Pillars from bedrock to strengthen POIs weakened SI

[Lock Picking]

- Fixed a hard crash when trying to access Progression

[Fire Manager]

exintguish -->

the party,

Note: This is checked per block, per CheckInterval.

Version: 20.6.471.1518 [Quest Utils]

- Uncommented code that was accidentally commented out.

Version: 20.6.470.1151

[Quests / Entity Targetting]

- Merged in a bug fix for khzmusik.

The revenge targets were being set on all entities in bounds, including the player hires. This is now fixed, and in addition the revenge targets also will not be set on other players in

provided those players are protected from friendly fire.

To detect whether an entity is an ally of the player's party, I created a new IsAllyOfParty method in EntityTargetingUtilities.

I did not change any existing methods so there should be no risk of breaking anything.

I also fixed an issue where the POI's full area was not covered (the Bounds constructor shrinks the size vector

argument in half so only a quarter of the prefab was covered).

[MinEvent]

-Added a MinEvent to attach scripts to entity transforms.

- Note: This should not be used yet. I've added it for xyth's testing for getting zombies to create foot prints in the snow.

Example:

<effect_group>

<triggered_effect trigger="onSelfFirstSpawn"

action="AddScriptToTransform, SCore" transform="RightFoot" // The Game Object's Name to target. script="GlobalSnowEffect.GlobalSnowCollisionDetector,"

SphereII_Winter_Project" // The script you want to attach: Namespace.Script, Assembly

/>

<triggered_effect trigger="onSelfFirstSpawn"

action="AddScriptToTransform, SCore" transform="LeftFoot"

Version: 20.6.467.917

[Quests]

- Merged khzmusik's new Quest Action.

This quest objective sets the revenge targets of all entities in range.

<action type="SetRevengeTargetsSDX" id="party" value="location" phase="2" />

[Lock Pick]

- Adjusted MaxGiveAmount to be 2 * the perk level

[Music Boxes]

- Reformatted, and refactored

[IsActive]

- Fixed some issues with the TileEntity AlwaysActive
- Re-enabled full Winter-Project support

[Inert]

- When an entity is inert, the entity is paused. No animations, no sound, no attacks, and takes no damage.
- When an entity has the following property, it will only be active at night. Otherwise, it'll be considered inert.

 - Added a check for TargetIsAlive if the entity is Inert or not. If it is, it's ignored.
 - Added checks for IsEnemyNearby, and CanSeeTarget to do Inert checks.
 - Added patches so inert entities will not make a sound.

[Fire Manager]

- Tagged Material: Mhay to be flammable.
- Re-factored FireManager to be clearer.
- Added some performance tweaks:
- Sound will not always play on each fire block. Instead, each block will have a random chance to either play a sound or not. (10% chance to play a sound)
 - Added 5% chance for a block to self-extinguish.
 - These checks are re-evaluable on the CheckInterval time.
 - Added a check for Explosion.
- If a block has an explosion property, and is set as flammable, the block will trigger an explosion when it downgrades.

[Explosion Particles]

- The vanilla prefabExplosions array that maintains a list of possible explosion particles via the Explosion.ParticleIndex is set to 20.
- When a game starts, the SCore will check it's ConfigurationBlock's ExternalParticles node for external particles.

Example:

class="ExternalParticles">

<!-- The name is not used by the system. The index value will be displayed in the log during a game boot up. -->

- If a particle entry is detected, this particle will be registered with the main ParticleEffect.RegisterBundleParticleEffect.
- This is the same particle effect that is used elsewhere in the system, including the Fire Manager.
 - The index of this particle will be the bundle's GetHashCode().
 - This value can be viewed in the log file:

Registering External Particle: Index: -87591912 for #@modfolder(0-

SCore):Resources/PathSmoke.unity3d?P_PathSmoke_X

- This check is applied via a Harmony patch to GameManager's ExplosionClient, and will be triggered if the ParticleIndex is not within a range of 0 and 20.
 - Append to SCore's ConfigurationBlock's ExternalParticles Entry.

Version: 20.6.453.1912

[Effect Group Requirement]

- Fixed a bug where it just didn't work.

Tested Configuration, other combinations may work:

[Fire Manager]

- No code change, however wanted to say that the SetLightOff was moved from the GameUpdate loop, and moved behind the check interval.
 - Performance increase potential.

Version: 20.6.453.1540

[Fire Spread]

- New property in Config/blocks.xml.
- If FireSpread is false, fire will not spread to neighboring blocks.
- Default is true, fire will spread.

[EntityAliveSDX]

- Merged in FuriousRamsay's changes
 - Remove the colliders on death, so you can keep bodies around afterwards
 - Added lootable corpses.

[Spook Theme]

- Fixed an issue where Spook wasn't spookie. Effects easier to tell at night.

[Effect Group Requirements]

- Added a new Requirement, meant to be used in the effect_group / triggered events.
- Note: This is completely untested.

<!-- True when the item is 100% broken --> <reguirement name="HoldingItemDurability, SCore" value="1"/>

<!-- True when the item is 50% broken --> <requirement name="HoldingItemDurability, SCore" value="0.5"/>

Example on an items.xml reference:

action="CreateItemSDX, SCore" item="whatever" /> </effect_group>

Version: 20.6.442.1932

[Food Spoilage]

- Added an additional check for PreserveBonus -99 to not spoil when taken out.

[Lock Picking]

- If keyboard is not detected as the primary input device (ie, a controller is), then disable the lock mini game, and fall back to vanilla
 - Added a cvar check to fall back to regular lock picking
- If the player has the cvar LegacyLockPick of greater value than 0, default lock picking will be used, skipping the mini-game.

[MinEffect]

Added Soleil Plein's new Console command that executes commands and passes cvar values to it.

<triggered effect trigger = "onSelfBuffStart" action =

"ExecuteConsoleCommandCVars, SCore" command = "testCommand {0} {1}" cvars = "cvar1,cvar2" />

[Encumbrance]

- Needed a way to re-calculate the encumbrance when the cvar for max encumbrance triggers.
- Not many good ways came to me for this, so I wrote a MinEffect. This will recalculate the encumbrance values.

<triggered_effect trigger = "onSelfBuffStart" action = "RecalculateEncumbrance,</pre>

[Legacy Distance Terrain]

- Disable Legacy Distant Terrain in GameModeEditWorld mode due to reported lag.

Version: 20.6.247.845

SCore" />

[Vehicle No Pick Up]

- Fixed spelling error in NoVehicleTake.cs
 - Left old name as an empty, mispelled file to be removed for A21... if I remember.

[Farming]

- Added property check for Direct Water Source.
 - cproperty name="WaterType" value="Unlimited" />
- Any block with that set will be an unlimited water source, and will not take damage from

crops.

- Add to bedrock, or any other block you want.

[Quests]

- ObjectiveBuffSDX now displays the localized name_key for the buff.

Version: 20.6.422.831

[Vehicle No Pick Up]

- Fixed a bug where removing the "take" option just shifted the index, not remove the functionality.
- Added a few filtering options, allowing modders to fine tune which vehicles can be picked up or not.
- The follow conditions allow for vehicle pick up, listed by the order in which they are evaluated, if the feature is enabeld in the Config Block's VehicleNoTake
 - If the vehicle has the tag: takeable
 - If the Player has the cvar: {EntityVehicleName}_pickup, and this value is greater

than 0.

Example: vehicleBicycle_pickup = 1

- If the Player has the cvar: PickUpAllVehicles, and this value is greater than 0.
- In all other cases, the vehicle's "take" command will be disabled.

Version: 20.6.420.840

[Encumbrance]

- Added a check that for block weight.
 - Previous was only checking if the Item entry had a weight.
 - Now checking ItemWeight, and if not found, will check the Block weight.
 - If both item and block has different weight, the Item weight will take priority

[Repair From Container]

- Fixed the issue where the tool belt items were not being consumed.
- Activated original Repair Block code. Code was not added to project and not built.
 - Disabled my own crummy implementation which was causing more bugs.

Version: 20.6.416.1123

[MinEvent]

Added MinEventActionSetDateToCVar

This will set the Current Day to the CVAR \$CurrentDay.

Example:

<triggered_effect trigger="onSelfBuffStart" action="SetDateToCVar, SCore"

target="self"/>

CVar \$CurrentDay will have the current game day.

[Farming]

- Added debug information to water pipes, farm plots, and crops.
 - If the player holds down the "Activate" key, it will display the information about

water.

- le: holding down <E> by default will show information about some blocks.
- Adjusted the way that the Farming Task extracts Harvest / Items

Seeds:

- The first planted*1 item it finds will be the seed which is replanted.

Example:

<drop event="Destroy" name="plantedBlueberry1" count="1"</pre>

prob="0.5"/>

- All planted*1 items will be removed from the harvest / destroy lists.
- The Farming Task will generate a new item to be used for planting.

Harvest:

- By default, all harvesting will continue as expected.
- If the NPC has a cvar for the Harvest item, it will set the min and max

count to that value.

Example:

If MyFarmer has a cvar called "foodCropBlueberries", with a value of 5, MyFarmer will get 5 blueberries from each harvest,

regardless of prob or min / max count defined in the

Harvest line.

- Adjusted Farming Task Scanning to include tending to wilted plants.
- Updated BlockWaterSourceSDX to be able to supply unlimited water, without requiring a water block itself, or doing damage.

cproperty name="WaterType" value="Unlimited" />

- The above property can also be applied to a BlockLiquidv2, and will have the same effect.

Default is limited.

Version: 20.6.414.1626 [Farming]

- Fixed a bug where the Farmer would not see FarmPlots
- The BlockFarmPlosSDX was not setting IsNotifyOnLoadUnload to true, thus it was not registering being loaded and unloaded.

[Encumbrance]

- Fixed a bug where the encumbrance of equipment was not being done correctly

Version: 20.6.413.1556

[Craft / Repair From Containers]

- Adjusted permission for Broadcast feature to allow members of the same party to access locked containers.

Version: 20.6.412.1907

[Craft / Repair From Containers]

- Rolled back a fix when count of items were doubled.
 - Seems this fixes it for some containers, but for others, it displays no items.

[Fire Manager]

- Integrated FuriousRamsay's fix for the MinEffectAddFireDamage.

- In some cases, a melee weapon will set fire to contents on the other side of a wall or door, if the ray cast went through the block.

[Farming]

- Fixed an issue where a water plant was doing damage to a sprinkler, instead of water block
- Added an additional scan for UAITaskFarming to do a wider scan if it doesn't find anything interesting.

Version: 20.6.409.1626

[Craft / Repair From Containers]

- If a container is open, do not include the contents in the broadcast scan.

[Farming]

- Fixed an issue where a Plant could not consume water from the water, through the sprinkler.

- Added a fix to help improve Farmer to reach corner farm plots
- If a PlantGrowingSDX block has a PlantGrowing. Wilt, it will flag the plant to wilt if there's

no water

- Added new Config Block Entry called WaterParticle on CropManagement node.
 - When a plant consumes water, this particle will be applied.
 - When a plant is first planted, this particle will be applied.
 - Default particle in Bloom's Family Farming is from Guppycur.

It will run for 5 seconds, then stop looping.

The particle is not removed until the plant is removed.

Default:

property name="WaterParticle" value="NoParticle" />

Bloom's Family Farming XPath:

<set

xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='CropManagement']/property[@name='WaterParticle']/@value">#@modfolder:Resources/guppyFountainDisplay.unity3d? gupFountainDisplay</set>

- Each Plant can over-ride the particle at the block level, using the same property.
<!-- No particle for this particular plant -->

property name="WaterParticle" value="NoParticle" />

Version: 20.6.408.1442

[Craft From Containers

- Fixed an issue where craft / repair from containers was checking tool belt, then containers.

It was checking to see if the item was in the backpack, but not consuming it.

Version: 20.6.408.1121

[Craft From Containers]

- Fixed an issue where GetItemCount() patch was searching for ingredients twice, resulting in mis-reporting (2x amount actually available)

[Encumbrance]

- Added basic encumbrance.
- Encumbrance check fires when something is added \slash removed from back pack, toolbelt, and equipment.

- Once encumbrance is calculated, it's total value is added to a cvar, specified in the Config block. By default, this is encumbranceCVar.
- The value of the cvar is based on percent. When set to 1f, the player is considered at MaxEncumbrance.
 - A value of 1.5 means the player is considered to b e 50% over encumbered.
- Maximum Encumbrance is read from the Config Block. However, if the CVar "MaxEncumbrance" is set, it will use that value instead.
 - If Max Encumrabrance drops below 0, it will be reset to the Config Block Entry.
 - The CVar will not be reset, only the value being used to perform the calculation.
 - New configuration options added to SCore's Config block

 - <!-- how much encumbrance before "max" threshold is set, and penalties

are incurred. -->

coperty name="MaxEncumbrance" value="10000" />

<!-- This cvar value will be placed on the player and will be a percentage of

encumbrance. -->

<!-- 1f = at max encumbrance. 1.5, 50% over encumbrance --> cproperty name="EncumbranceCVar" value="encumbranceCVar" />

<!-- Include Tool belt? -->

cproperty name="Encumbrance_ToolBelt" value="false" />

<!-- Include equipment ? -->

cproperty name="Encumbrance_Equipment" value="false" />

<!-- Each item that does not have a ItemWeight property will be weighed at

this value. -->

cproperty name="MinimumWeight" value="0.1" />

Recommend XPath:

<set

xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='AdvancedPlayerFeatures']/property[@name='Encumbrance']/@value">true</set>

<set

 $\label{locks} $$x$ path="/blocks/block[@name='ConfigFeatureBlock']/property[@class='AdvancedPlayerFeatures']/property[@name='Encumbrance_ToolBelt']/@value">true</set>$

<set

xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='AdvancedPlayerFeatures']/property[@name='Encumbrance_Equipment']/@value">true</set>

<set

xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='AdvancedPlayerFeatures']/property[@name='MinimumWeight']/@value">1</set>

- Each item can have a property called ItemWeight which will over-ride the MinimumWeight from the SCore's block's entry.

cproperty name="ItemWeight" value="10" />

- ItemWeight can be 0, and can also be negative numbers.

[Farming]

- Fixed a bug where a water sprinkler was acting as an independent water source.
 - -> Water sprinkler is now checking to see if its connected to a valid water source
- Fixed an issue where crops could be planted after a sprinkler was removed, and the area

was no longer watered.

- Added debug information on pipes to show water source, and how much water is left.
- Added a Custom description for BlockPlantGrowing to show water information. This is for testing purposes.

cproperty name="DisplayInfo" value="Custom"/>

- Fixed an issue where Farmer would get bored and do nothing.

Version: 20.6.405.854 [Farming]

- Fixed a bug where the water range check was incorrectly using the water range of air, rather than the plant.

Version: 20.6.403.1003

[Farming]

- Fixed an issue where the sprinkler blocks were not registering themselves to the Valve System.
- Plants will check all valves (sprinklers) for their water range, then calculate if its within range of the valve.
- If there are no valves within range, plant will check for surrounding blocks for water.

Version: 20.6.403.2043

[Broadcast Feature]

- Added code for Repair / Upgrade from storage
- Added check to see if enemy was nearby for Repair / Upgrade from storage

[UAI Farming Task]

- Moved seed decrements from UAI Task to the Manage method, to more accurately subtrack seed usage.
 - Added water check to see if NPC can actually plant at the location.
 - Added a Water Valve Check
- When a water block will scan for a water source, it'll check all the valves registered, and check if the plant is within range of the water block's water range
- In order for this water valve to be registered, it must be on. Just having a water valve that is not on, will not be sufficient for plant needs.
 - This is different behaviour than using a regular non-valve water

source.

- If the original valve is off when a plant checks, it will look for other valves to see if there's any water available on them.
 - If none are found, it'll resort to legacy behaviour, and scan for water sources.

[Trample Code]

- Entities that have "notrample" cvar value greater than 0, will not cause crops to be damaged, if the crops damaged feature is enabled.
 - Entities that have a "notrample" tag will not cause crops to be damaged.

[Quest]

- Added Localization support.

ObjectiveBuffSDX_keyword (fall back is ObjectiveBuff_keyword, which is simply

Get in English)

<buff> If the buff name has a localization setting, it'll use that, in conjunaction with the keyword Get <my buff>

Version: 20.6.381.1359

[Merge from khzmusik]

- Fixed a null ref when an NPC would shoot a drone.
- Enhanced support for NPC Guard

The Guard command, when issued from a pathing cube, sets the NPC order to Guard. Since it is not issued by the NPCs leader or owner, the guard position is set to (exactly) where the NPC is standing.

This is different from the "GuardHere" response (aka "Stay where I am standing") in the hired NPC dialog menu. That dialog response sets the current order to Stay, and since it is issued by a player,

the guard position is set to the center of the block where the player is

standing.

This is all done by buffs. The buff from the pathing cube was already named "buffOrderGuard" in the C# code, but there was never a buff by that name in buffs.xml. So, I created a new buff for use by that code.

The buff used by the dialogs was "buffOrderGuardHere", which matched an existing buff in buffs.xml. That buff is unchanged.

Because the order is Guard, any NPC Core utility AI tasks that will not fire when the order is Stay, will still fire. This means NPCs will still run after enemies, reload, etc.

In order to have them stay where they are when initially spawned in, and return to their guard positions after they're done attacking enemies, a new AI task will need to be added in utilityai.xml. But this is not done in SCore.

No existing behavior should be affected by these changes; only POIs that have pathing cubes with "task=guard" will need these changes, and to my knowledge nobody is doing that.

Version: 20.6.368.1433

[Food Spoilage]

- Fixed an issue with -99 not stopping spoilage when using PreserveBonus -99

[RandomDeathSpawn]

Bug Report #61: Wrong spawns on multiplayer of "Burn Victim" #61 (https://github.com/SphereII/SphereII.Mods/issues/61)

- Added isEntityRemote check before determine to spawn or not.

[ObjectiveBlockDestroySDX]

Added a NetPackage to help distribute the block being destroyed count to the party for shared accumulation

[Fire Manager]

- Disabled the extinguished check to see if a block has been flagged as extinguished or
 - Added a check where extinguished removed a block from the fire map.
- New functionality is that each time a block is extinguished, it'll set the expired time, regardless if it's already in the list, counting down.
 - If BlockA was extinguished, it can smoke for 20 seconds.
 - After 20 seconds, BlockA can catch fire again.
 - If BlockA is re-extinguished before the 20 seconds are past, expired time will be

set back to 20.

not.

- Old functionality is that each time a block is extinguished, it'll expire after the expired time, allowing it to re-ignite.
 - If BlockA was extinguished, it can smoke for 20 seconds.
 - After 20 seconds, BlockA can catch fire again.
 - If BlockA is re-extinguished before the 20 seconds are past, it won't reset that

time period.

Version: 20.6.297.1109

[Enitity Alive SDX]

- changes by kgiesing
- With these changes, both EntityAliveSDX and EntityEnemySDX will implement that interface.
 - This should allow EntityEnemySDX to behave similarly to EntityAliveSDX
- This creates a new interface named IEntityOrderReceiverSDX, which should be used on any entity that can accept orders.
- Also, order-related blocks, MinEvents, and Al tasks are updated to use the interface type, rather than EntityAliveSDX directly.

Version: 20.6.295.807

[Broadcast Manager]

- possible fix for Broadcastmanager not saving on Multiplayer games : by FuriousRamsay

Version: 20.6.285.831

[Broadcast Manager]

- Broadcastmanager will now save and cleanup on exiting
- It should now be possible to broadcast from storages put down by other players
 (storage must be locked if you don't want other players be able to remote craft from your storage)
 - Changed Button code for better support in custom Uls.

[Remote Crafting / Repairs]

- added remote repair/upgrade on blocks by FuriousRamsay
- added blocking repair/upgrade when enemies nearby

Version: 20.6.259.937

[BlockClockDMT]

- added in BlockClockDMT, which gives a working clock, updating an animator on the unity object every hour.

cproperty name="Class" value="ClockDMT, SCore"/>

[Spawn On Death]

- Commented out code that would destroy the gore block, which may not be relevant anymore.

[Remote Crafting]

0-SCore - Solved bug where broadcast button was not being hidden when broadcastmanager was disabled Version: 20.6.250.1020 [Fire Manager] - Fixed a potential null ref when the fire check is firing before the game is fully loaded. Version: 20.6.249.1333 [Random Death Spawn] - Updated spawn code to reflect the changes from SpawnEntity MinEffect to avoid duplicating entities [Linux Fixes] - Fixed null reference errors when running on Linux client for crop trample and IsAlwaysActive Version: 20.6.247.1047 [Entity Stats] Using patch from haidr'gna. Sets cvars on the character that contains the current rain fall, current snow fall, and current cloud percent CVar: _sc_rain sc snow sc cloud _instance.Entity.Buffs.SetCustomVar("_sc_rain", rain, true); __instance.Entity.Buffs.SetCustomVar("_sc_snow", snow, true); __instance.Entity.Buffs.SetCustomVar("_sc_cloud", cloud, true); [Fire Manager] - If an entity has a property set for SpreadFire set to false, an explosion from it will not spread the fire. cproperty name="SpreadFire" value="false" /> - If an entity has a cvar called SpreadFire, and is set to -1, an explosion from it will not spread the fire. - Commented out OnEntityWalkingPatchFire, as I believe UpdateCurrentPositionAndValue patch is sufficient to catch an entity on fire. [Block Utilities]

- Added a check to not add particles if the system is on a dedicated server

Version: 20.6.242.1151

[Cave Manager]

- Adjusted math for Heigh map

Version: 20.6.240.913

[Fire Manager]

- Potential fix for stack error on Linux

[Cave Manager]

- Adjusted math for HeightMap mode
- Added new default height map as cave1.png.

Version: 20.6.238.1937

[Cave System]

- Initial implementation of Heighmap cave system.
- Samples under 0-SCore/Caves/Stamps
- To enable Height Map Caves using xpath:

<set

xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='CaveConfiguration']/property[@name='CaveEnabled']/@value">true</set>

<set

xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='CaveConfiguration']/property[@name='GenerationType']/@value">HeightMap</set>

<set

xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='CaveConfiguration']/property[@name='CavePath']/@value">@modfolder:/Caves/Stamps/cave11.png</set>

<set

xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='CaveConfiguration']/property[@name='CavePrefab']/@value">Large</set>

- Default is cave11.png
- Teleport to 0 0, then look for underground. The top corner of your target png is currently

set to 0,0

-> You can also look at the log for: Cave Teleport:

This will give you the coordinates to teleport to. Example: Cave Teleport: 57 0

teleport 57 0

- Log file is kind of spammy.
 - During initial load up, it will display lines of numbers for the cave mapping as the

system sees it.

- When a cave is being drawn, it'll display Target Depth.
- The CavePrefabs placeholders are currently defined as follows:

Large: 3x4x3 block of air Medium: roughly 3x1x3

Small: 1x1x1

- This will be fleshed out more, but this is what you can start off with. I don't find Medium and Small very useful, but your heightmaps may need adjustments

Version: 20.6.238.1305

[Fire Manager]

- Updated two Harmony patches that give buffs to check if the block is on fire and has a particle.

[Random Death Spawn]

- Removed blocking Check:
 - if (__instance.Buffs.HasCustomVar("NoSpawnOnDeath")) return true;
 - Added another line of guppy code to prevent spawns:

if (strSpawnGroup == "SpawnNothing") return true;

- Resynced Guppycur's changes
- If an entity has a custom cvar called RandomSize, and a custom cvar called SpawnCopyScale, the newly spawned entity will spawn with the same scale as the original

[UMA]

- Brought forward some UMA patches that are disabled by default; toggle in Config/blocks.xml
 - -> If UMAs are set to type="Zombie", create the Data/UMATextures Folder
 - -> If UMATweaks is enabled, this folder is created when a type is Zombie.
 - -> If UMAs are set to type="Player", you do not need a Data/UMATextures folder

Version: 20.6.235.1604

[ObjectiveBlockDestroySDX]

-> Added support for comma-delimited list of tags. If the objective's ID does not match any

known block, the objective will assume the id is a potential comma-delimited list of tags.

<objective type="BlockDestroySDX, SCore" id="ore,deepOre" value="1"</pre>

phase="2"/>

- -> Note: Order of checks is: comma-delimited block name, block name, comma-delimited tag. This is important because some tags will match a block name (terrGravel, wha u doin')
- -> Note: Count is unified, so a woodChair1 and woodChair1Broken counts as 2 towards this objective

[XUI Menu]

- -> Added a Config/XUi_Menu/windows-Template.xm to expose over-ride options using w00kie n00kie's Custom Game Option mod: https://gitlab.com/wookienookie/CustomGameOptions.git -> other settings can be exposed with just XML settings. Some documentation
- exists in the windows.xml on how to map the settings to the xui.
- -> This file is just a template file. Using it as-is is NOT recommended, as it will not display properply.
 - -> This is an optional feature that will not work without the CustomGameOptions.

Version: 20.6.234.911

[EntityAlive Patch]

- Added a chunk of Guppycode I missed

[SpawnCubeSDX]

- If the keep variable is on the Config line (the value does not matter.. keep=0), then it will not self-destroy
 - -> When keep is available, it'll set a scheduled update into the future.

[Entity Swimming]

- Fixed an issue where fish were outside of water

[A Better Life]

- Adjusted spawn rate in the biomes.xml for fish spawns.

Version: 20.6.233.1938

[Entity Alive Patch]

- Added new cvar check to disable SpawnOnDeath
 - -> If a particular entity has a cvar called: NoSpawnOnDeath, then it will skip the

SpawnOnDeath

```
[ Headshot Only Patch ]
```

- Fixed typos

[Fire Manager]

- If SmokeTime is set to 0 or below, no smoke will be placed.

[0-SCore Development]

- Re-visited AssemblyInfo.tt and fixed up a issues, simplyfing it and adding leading 0s

[SpawnCubeSDX]

- Added new property called keep=0. This will keep the spawn block from destorying itself, which was affecting water spawned entities.

Version: 20.6.231.98

[Entity Alive Patch]

- Moved SpawnOnDeath() to a prefix rather than postfix, to remove ragdoll

[Fire Manager]

- Fixed a threading issue where a zombie hand attack would crash if it tried to add fire.
- Fixed an issue where a Material does not have MaterialDamage setting (error reported by

Version: 20.6.230.1610

magejosh)

[Entity Alive Patch]

- Fixed an issue where entity's using the Vulture class were stuck in their jump pose.
- Added a ForceDespawn() call to the SpawnOnDeath() feature.

[Fire Manager]

- Moved registering of particles to the Block.Init()
 - -> Checks the block and material for FireParticle and SmokeParticle.

Version: 20.6.230.86

[Remote Storage]

- Fixed Bug where items with ItemQuality where not removed from containers from matteo

[Fire Manager]

- Removed test code that turned terrain into burn forest when burned.
- Updated Explosion patch.

less than 0 -->

cproperty name="Explosion.BlockDamage" value="1"/> <!-- lights fire. Value</pre>

higher than 0 -->

```
Version: 20.6.229.1021
```

[Fire Manager]

- This allows you to specify different cvars for different ranges
- Added support for a FireDowngradeBlock property on a block.
 property name="FireDowngradeBlock" value="terrSnow" />
 - -> This will downgrade a block that is damaged by fire only.
 - -> If set, the downgraded block will go through the blockplaceholders for other

options.

- -> If the new block is flammable, it will remain on fire.
- -> If the new block is not flammable, it will get extinguished.

Version: 20.6.229.2113

[Fire Manager]

- Fixed an issue where zombies do not catch fire walking through fire.

Version: 20.6.229.2113 [Fire Manager]

- Hot fix to prevent crashing when adding sound (like trees)

<!-- How long the smoke will stay on a block. -->

Sound Data Node to use. Can be over-ridden by individual block -->

- FireSound can be over-written on a block by basis.

Version: 20.5.228.1520

[Fire Manager]

- Added new buff Requirement to determine if you were close to a fire block <requirement name="RequirementIsNearFire, SCore" range="5" />
- Added a new MinEffect to determine how many burning blocks are within the player.

 <triggered_effect trigger="onSelfBuffUpdate" action="CheckFireProximity, SCore"</pre>

range="5" />

- -> This sets a cvar called _closeFires with how many burning blocks are near by.
- Added sound effects for fire.

[Remote Storage]

- Added Invert feature to disabledsender
 - -> If Enabled only mentioned containers share inventory
- Added grouping of workstations to nottoworkstation and bindtoworkstation
 - -> It is now possible to group multiple workstations to a group of storages

Version: 20.5.227.1659

[Fire Manager]

- Updated the code to set fire to players to use AddBuff instead of AddBuffNetwork

[SpawnCube2SDX]

- Added two new mineffect to set and clear owner of the SpawnCube2SDX

<triggered_effect trigger="onSelfDamagedBlock" action="ClearOwner, SCore" /> <triggered_effect trigger="onSelfDamagedBlock" action="SetOwner, SCore" />

Version: 20.5.227.925

[Remote Recipes]

- Merged changes from matteo

added features requested by pipermac...

updated searchnearbycontainers since checks are already done by gettileentities. changed some methods to use searchnearbycontainers instead of gettileentities.

Version: 20.5.227.95

[SpawnCube2SDX]

- Added Harmony patch to preserve ownership during upgrades / downgrades

 - -> Config property line can be ommitted, or blanked, for non-spawning spawnCube.

Version: 20.5.226.2037

[Fire Manager]

- Fixed an issue with the FireManager not tracking fires on dedi correctly
- Fixed an issue where melee attack does not set fires correctly (only partially applying

fire)

- Updated default Config/blocks.xml's entry for what is flammable or not.
- Added protection gate for MinEffects when fire manager is off line.

Version: 20.5.226.1035

[Fire Manager]

- Moved fire buff on walk to Entityalive patch rather than block
- Fire hurts now.

[Config/blocks.xml]

- Cleaned up an old Broadcastmanager node.

Version: 20.5.224.1353

[Broadcast feature]

- Update from matteo, removing second button, updating sprites

Version: 20.5.224.1021

[Broadcast feature]

- Fixed an issue with a null ref when the xui.currentworkstation is empty

[Quests]

- Added new ObjectiveBlockDestroySDX, SCore. Example in Config/quests.xml

<objective type="BlockDestroySDX, SCore" id="frameShapes" value="1"</pre>

```
phase="2"/>
```

Version: 20.5.223.110

[Broadcast feature]

- New Broadcast Manager feature by matteo (https://youtu.be/BGPSIc5HUgg)
- New NetPackages to support broadcast feature

[Remote Containers]

- Fix by matteo with regards to pulling ingredients for forge

Version: 20.5.221.934

[Remote Containers]

- Merged fixes from matteo

[EntityEnemySDX]

- Merged fix for IsAlwaysAwake

Version: 20.5.220.1149

[Remote Containers]

- Fixed an issue where items were not being removed from the container.

Version: 20.5.218.1914

particle.

[Fire Manager]

- Fixed a null ref when fire manager is first started when DyanmicMesh system isn't online
- Added optional feature where randomized fire and smoke particles can be used, using a comma-seperated format.

If this property is not defined on the Configuration block, it uses default Fire/Smoke

Example in Config/blocks.xml, but also here:

property name="RandomFireParticle"

value="#@modfolder:Resources/gupFireParticles.unity3d?gupBeavis05-

Heavy,#@modfolder:Resources/gupFireParticles.unity3d?gupBeavis02-

CampFire,#@modfolder:Resources/gupFireParticles.unity3d?gupBeavis03-

Cartoon,#@modfolder:Resources/gupFireParticles.unity3d?gupBeavis04-

SlowFire,#@modfolder:Resources/gupFireParticles.unity3d?gupBeavis06-HeavyLight"/>

Version: 20.5.218.174

[Fire Manager]

- Added a call to update dynamic mesh so a burned down prefab looks as you'd expect.
- Merged in ocbMaurice's light changes.
 - These will turn on and off lights from the fire to improve performance

[Portals]

- Disabled ChunkObserver setting for Portals, as it was causing an error on the dedicated servers

Version: 20.5.216.1632

[Fire Manager]

 Expanded SmokeParticle, FireParticle, and FireDamage to be read from the block's material entry.

much damage each time it checks will do the block. -->

cproperty name="SmokeParticle"

value="#@modfolder:Resources/PathSmoke.unity3d?P_PathSmoke_X" /> <!-- Fire particle to use -->

property name="FireParticle"

value="#@modfolder:Resources/gupFireParticles.unity3d?gupBeavis05-Heavy" /> <!-- Fire particle to use -->

Priority Order:

Material Entry Block Entry Global Entry

- Added a delayTime to the MinEffectAddFireDamage.

The value is in milliseconds. Default is 0, with no delay.

<triggered_effect trigger="onSelfDamagedBlock" action="AddFireDamage, SCore"
target="positionAOE" range="5" delayTime="1000" /> <!-- 1 second before fire starts -->

Version: 20.5.216.1451

[Entity]

location.

- New MinEffect to spawn an entity. The actual spawn location is hit position + 1 block up.

For example, adding this to the ammo of a cross bolt will spawn an entity at the hit

<triggered_effect trigger="onProjectileImpact" action="SpawnEntityAtPoint, SCore"
SpawnGroup="ZombiesBurntForest" />

Version: 20.5.215.1938 [Fire Manager]

- Removed verbose log output

Version: 20.5.215.1628

[TileEntity AOE]

- Fixed an invalid cast from bad copy and paste job.

[Fire Manager]

- Added debug output to MinEffects, enabled via turning Logging on in the FireManagement

Version: 20.5.214.1558

[Ingredients From Container patches by matteo]

https://github.com/SphereII/SphereII.Mods/pull/46 changed some stuff to ling for better readabilty.

Note: Please report any kind of performance slows downs.

[Fire Manager]

- Updated to use NetPackages.
 - -> Particles should work on Fires, extingusihes, and auto-expire
- Added new NetPackages to distribute the server's data to client's

Version: 20.5.214.743

[Ingredients From Container Patches by matteo]

https://github.com/SphereII/SphereII.Mods/pull/45 fixed some issues with items not being removed correctly.

[Entity Swiming]

- Pushed a fix to avoid spawning fish randomly in the world.

[Fire]

Note: Fire System is being refactored to fix a variety of issues.

- Fixed particles not showing on dedi / P2P clients.
- Changed Fire Instance start to ModEvent for GameStartDone.
- Added Cleanup call to clear possibly stale data on client restart.
- Added Reset() to clear all existing game blocks that are on fire or smoldering.
- Added new console command called: fireclear
- -> Removes all recorded blocks that were on fire or extinguished, and removes their particles.
 - Fixed an issue with the NetPackageRemoveParticleEffect() with a useless write call.
- Explosions that cause BlockDamage -1, will extingish fires. BlockDamage other than -1 will set fires.

cproperty name="Explosion.BlockDamage" value="-1"/>

- Added new property to Config/blocks.xml to control the amount of smoke time at the end of a fire, in seconds.

cproperty name="SmokeTime" value="60" />

- Removed smoke particles from fires that burn themselves out. Reserving them now when you intentionally extinguish them.
 - Modified MinEvent FireDamage / FireDamageCascade to support ranged targets.

Version: 20.5.211.1016

[Fire]

- Order of Material Checks, in terms of priority:

ID

DamageCategory DamageSurface

- New block properties have been exposed, over-riding global defaults for FireParticle /

```
SmokeParticle
```

To mass add custom particles above to blocks, consider using an xpath similar to

this:

<!-- Search for all blocks that have a Material property called Mcloth, and add in the properties to that block -->

<append xpath="/blocks/block[property[@name='Material' and

@value='Mcloth']]">

cproperty name="FireParticle"

value = #@modfolder: Resources/gupFireParticles. unity 3d?gupBeavis 05-Heavy" "/> 2d?gupBeavis 05-Heavy" | 10d |

cproperty name="SmokeParticle"

- Add new NetPackage in attempt for particles on dedi. Needs testing.
- Added new MinEvent called AddFireDamageCascade. Defaults to block type.

This minevent works similar to the Extinguish Minevent, in which multiple blocks of the same type around the target is affected. Rather than extinguish, it ignites those blocks instantly.

Supported formats:

<!-- Shares the same material -->
<triggered_effect trigger="onSelfDamagedBlock"
action="AddFireDamageCascade, SCore" range="4" filter="Material" />

Example, if you hit a curtain block, it will catch fire. In addition, all curtain blocks in the range of 4 are also immediately lit.

Version: 20.5.210.1950

[Fire]

- Changed default buff when you step into the fire to be buffBurningMolotov
- Added new particle from guppycur (commented in Config/blocks.xml)
- Fire will not be added to trader-protected zones. We have to protect Jen.

- Added new Config/blocks.xml properties to configure materials and surface categories to xml. Case sensitive.

Example, and default:

- Added new Config/blocks.xml to configure heat per burning block. Default is 1. Setting to 0 disables it.

- Added new block's property to control how much fire damage the block is to take. Integer. This over-rides the default global configuration.

cproperty name="FireDamage" value="40" />

Version: 20.5.210.1020

[Fire]

- Fixed an issue with the particles not working at all. Great job, Spherell.

Version: 20.5.210.859

[Fire]

extinguisher

- Fixed MinEvent on the RemoveFire damage to work at aim point, rather than the barrel of

- Put in a potential fix for dedi particles. Unlikely to work.

Version: 20.5.209.1530

[Fire Manager]

- Applying Fire Particle on hit, instead of delayed
- Adjusted the CheckInterval from 10 to 20
- Updated fire particle from guppycur
- Updated default fire particle to be Heavy

Version: 20.5.209.1414

[Fire Manager]

- Added initial implementation for lighting blocks on fire.
 - When a block is added to the FireManager, it is added to a loop that checks:
 - -> Is it still flammable?
 - -> Has it been extinguished?
 - -> Does damage on the block
 - -> If damage exceeds the block, it gets downgraded, or replaced with air.

(uses block placeholder)

-> Once all blocks are checked and calculated, it updates the chunks.

What makes a block flammable or not?

If it's a child, it won't catch fire. If its air, water, or is near water, it will not catch fire.

If the block has a tag of 'inflammable', it will not be burnable.

If the block has a tag of 'flammable', it will be marked as burnable. <append

xpath="/blocks/block[@name='terrGravel']/property[@name='Tags']/@value">,flammable</append>

If there is not tag, and passes the other checks, it'll check the block material from

if its DamageCategory is wood, or if its SurfaceCategory is plant, it will be

flammable.

materials.xml.

- New config entry in Config/blocks.xml
- New Harmony patch on OnEntityWalking, which checks if the block is burning and delivers a buff to an entityalive that walks through it.
 - New Harmony patch to Explosion to include blocks affected by them to catch fire.
 - New test items:

sphereTorch - When a block is struck, it is lit on fire.

sphereExtinguish - When a block is struck, blocks in a range of 2 of the strike position is considered extinguished.

[Triggered Effect]

- Added two new triggered effects to provide support for Fire Manager

<!-- When an item has this triggered effect hits a block that is flammable, the block

will catch fire -->

<triggered effect trigger="onSelfDamagedBlock" action="AddFireDamage,

SCore" />

<!-- When an item has this triggered effect hits a block that is on fire, the fire still

be extinguished. -->

<triggered_effect trigger="onSelfDamagedBlock" action="RemoveFire, SCore"

target="positionAOE" range="5"/>

Version: 20.5.207.98

[Block]

New Block to throw an AoE at all times. Full example xml in Config/blocks.xml.

Example:

Version: 20.5.194.1350

[Crop Management]

- Disabled unlimited water from bedrock block

- If desired to have bedrock as an unlimited water source, add the following property to the bedrock block:

cproperty name="WaterSource" value="true" />

- Added new property to global crop data that determines how much damage to a water block happens when a crop consumes.
- This property is defined in the CropManagement block of the SCore's configuration block.
 - Individual plants can over-ride this property if they have it defined on their block.

- This is done on a block by block basis. If your plant has 3 growth cycles, you will have to define it for each block, with various possible amounts.

- Default is 1.

property name="WaterDamage" value="1" />

- If a water source has a the WaterSource property, it is considered an unlimited source of water, so be mindful of this.
- When a water pipe is removed, and the particle is still enabled, the particle will now be removed.

Version: 20.5.177.1415

[Sleepers]

- Merged pull request to wake up sleepers automatically in Active sleeper volumes.

Version: 20.5.174.1938

[Portals]

- Fixed an issue where the requiredPower wasn't being checked correctly for the animation.
 - Animation may still be a bit wonky, but should be slightly improved.
- Fixed an issue where the sign data wasn't being saved correctly.

Version: 20.5.174.218

[Sleepers]

- Added the EntityEnemeySDX to the SetSleeperActive(). This was already being done for EntityAliveSDX.

Version: 20.5.169.98

[Portals]

- Changed location for when animations on portal starts

[Quests]

- Changed how the EntityEnemySDX and EntityAliveSDX kills are recorded; more in line with vanilla now for MP compatibility.

Version: 20.5.165.1145 [Portals]

- Fixed a bug with the dialog teleport

[Storage]

- Reduced default range from 30 to 10

Version: 20.5.162.1349

[Portals]

- Reproduced and fixed teleporting through buff / dialog and landing on a roof
- Added samplePortal06 which acts like a non-powered, player-editable test portal.

[Storage]

- Highly Experimental Feature

- When set to true, this highly experimental feature will read from containers around the player, pulling items out, to be used in crafting recipes.
- If crafting is cancelled, this highly experimental feature will dump the ingredients into the player backpack, rather than their original location.
- With regards to testing this highly experimental feature, high concentrations of containers may induce lag. We may need to put in limits on how many containers it will check.

Note: This is highly experimental feature.

[Food Spoilage]

Version: 20.5.155.1359:

[Quests]

Fixed a bug with ObjectiveEntityEnemySDXKill not recording.

Version: 20.5.155.1247

[Portals]

- Added ability to define a Prefab's nameon the location line. Full example in blocks.xml as samplePortal05.
- If the destination= portal isn't registered, and the prefab is defined on the location line, the Portal Manager

will search inside of the first prefab instance it finds, with that name, with that

<!-- I am samplePortal05, I go to samplePortal03, which is inside a prefab called

farm_02 -->

portal.

property name="Location"

value="source=samplePortal05,destination=samplePortal03,prefab=farm 02" />

- Fixed a bug where requiredPower wasn't being accurately checked.
- Made Portals be ChunkObservers

Version: 20.5.151.934

[Lock Picks]

- Added a new property to be read from Doors. If set to false, the doors are not pickable, and revert to vanilla

cproperty name="Pickable" value="false" />

- If the door has an Owner (Player-placed), the door will not be pickable.

[Quests]

- Added new EntityEnemySDX objective

<objective type="EntityEnemySDXKill, SCore" id="npcHarleyEmptyHand"
value="2" phase="3"/>

[Food Spoilage]

- No code changes, documentation only:
- Added an example items.xml entry to show how to specify food spoilage on the food items. Turning on the food spoilage in the blocks.xml does not fully activate food spoilage.

- The blocks.xml needs to enable the food spoilage, and the foot items must contain new properties to allow spoiling.
- khzmusik has an excellent modlet for this: https://gitlab.com/karlgiesing/7d2d-a20-modlets/-/tree/main/khzmusik_Food_Spoilage

[Portals]

- Added a check to see if the teleport request is either legacy support or the newer style.
 - This should fix the MinEvent Teleport and other one-way teleports.
 - If a location= only contains a single value, it's determined to be legacy
 - It will check all the portals for destination=, and then check its source=

[Dialogs]

- Added in a crude extend option which will be expanded more. I wouldn't use this yet, if I were you.

Version:20.5.149.1038

[Portals]

- When a new portal is added, it checks if the source location already exists, and how many times. If there's already 2, the portal is marked as invalid, and is not linked in.
- Operates on first set basis. New portals will NOT over-write existing portal locations. They must be removed before they can be re-assigned.
 - Sunsetting Portal, SCore blocks. It'll now pass through to PoweredPortal, SCore
- Note: Portal2, SCore exists in code to replicate the original code, but not intended to be used.
- The difference between a Powered Portal and non-Powered Portal is the RequiredPower

When the property is not set, it defaults to -1, and the portal does not need power

to operate.

value.

Set to 0 to disable a portal from getting power through extends.

MinEffectTeleport and DialogActionTeleport should accept location="destination=portal2".

- Source is not set up for these methods, unless someone has a use-case.
- If a PoweredPortal requires power, then the destination must be powered to go there.
 - If its not powered, teleport does not occur.

Added new samplePortal01b block. Source is samplePortal01cb, but destination is samplePortal01b

- Add buff buffTeleportTest to teleport to this portal

[Quests]

- Added SCoreQuestEventManager to manage custom events for future quests
- Added ObjectiveEntityAliveSDXKill, modelled off ObjectiveAnimalKill
 - <objective type="EntityAliveSDXKill, SCore" id="npcHarley" value="2" phase="3"/>
 - Example in quests.xml
- Merged khzmusik's quest changes

Adds an objective that is a drop-in replacement for RandomPOIGoto except you

can specify:

tags a POI must have to be included in the search, in the "include_tags" property tags a POI cannot have to be included in the search, in the "exclude_tags"

property

A distance from the quest giver, as either a max distance or range (in-game

meters)

All of the properties from RandomPOIGoto are also supported.

A sample quest is included.

For servers, a new Net Package implementation is included.

```
Version: 20.5.147.746
        [ Portals ]
                - Fixed null reference when using Legacy portal in PortalManager
                - Added IsPowered check to Teleport method, and to animate method
                - Added check to confirm destination is powered and available before teleporting.
Version: 20.5.146.1672
        [ Portals ]
                - Added Powered Portals. May need model work to add the 'electrical connection.'
                        <blook name="samplePortal04">
                                cproperty name="Extends" value="portalMaster"/>
                                cproperty name="Class" value="PoweredPortal, SCore" />
                                cproperty name="DisplayType" value="blockMulti"/>
                                cproperty name="MultiBlockDim" value="3,3,3"/>
                                cproperty name="Model" value="Entities/Electrical/power_switchPrefab"/>
                                <!--property name="Model"
value="#@modfolder:Resources/gupFuturePortal.unity3d?guppyFuturePortal"/-->
                                cproperty name="Display" value="true" />
                        </block>
Version: 20.5.145.728
        [ Caves 1
                - Added sanity check against a negative value for max range - Chasing possible bug with
vehicle + cave connection
        [ Portals ]
                - New configuration option for blocks.xml entry for portals
                        If the Display property is false, nothing will show up to the user when they are
looking at the portal.
                        cproperty name="Display" value="true" />
                        If the Display is set to true, and the player has the buff "buffyours", they will see
"Teleport To <Portal Destination>"
                        cproperty name="DisplayBuff" value="buffyours" />
```

If Display is set to true, but the player does not have the buff, they will see "Telport

- New - New cproperty name="Location" value="" /> Changes

If the value is simply Portal01, then it will act as a two-way portal to the other Portal with the same name.

MinEffect and Dialog teleport triggers use this syntax as well.

- New syntax:

property name="Location"

value="source=Portal01,destination=Portal02" /> I am Portal01, but I send the player to Portal02 contentproperty name="Location" value="source=Portal01,destination=NA" /> I am Portal01, but I have no destination. I am a one way portal (people can port to me, but not from me)

- Fixed an issue with PortalMaps not being cleared from one game to another

Version: 20.5.143.1141

To..."

```
[ Quests ]
               Added in GiveBuff as quest award
                       <reward type="GiveBuff, SCore" id="yourbuff" />
       [ Portals ]
               - Removed OnBlockCollided, and OnWalk on triggers. Players must interact with it now.
               - Added 2 second delay before teleport begins, starting after cooldown buff is specified.
                        cproperty name="CooldownBuff" value="buffTeleportCooldown" />
                        Default is 1000ms -->
               - Added XML configuration for fixed portals
                        cproperty name="Location" value="Portal01" />
       [ MinEvent ]
               - Added new MinEvent to teleport the player to a certain location
                        <triggered effect trigger="onSelfBuffStart" action="Teleport, SCore"
location="Portal01" />
       [Dialog]
               - Added new Dialog action to trigger a teleport. It supports the following, most of which is
not tested.
                       Teleports to a Portal
                        <action type="Teleport, SCore" id="Portal01" />
                       Teleports to the player's current bedroll
                        <action type="Teleport, SCore" id="Bedroll" />
                       Teleports to the player's landclaim
                        <action type="Teleport, SCore" id="Landclaim" />
                       Teleports to the player's backpack
                        <action type="Teleport, SCore" id="Backpack" />
       [ Faction Manager ]
               - Fixed null ref for faction manager's update call
       [XML]
               - Commented out the error with the PortalPrefab
Version: 20.4.126.2131
       [NPC]
               - Allowed override on a per-entity base for
                               cproperty name="AllEntitiesUseFactionTargeting" value="true" />
       [ Portals ]
               - Preliminary code for setting Portals ready for testing. Portals are fancy signs. Add the
same Text to two Portals, and they will be linked.
                       - In the case of multiple named portals, the first one discovered will be used.
                       Video Example: https://youtu.be/cvYxVzY_IO4
                       2 Portal Blocks have been defined in blocks.xml, using models provided by
guppycur
                                guppyPortalMagic
                               guppyFuturePortal
```

Version: 20.4.119.941 [NPC]

- Added Chunk visible feature for the NPCs.

When the chunk is not visible, the NPC's gravity will be turned off. When thec hunk is visible, the NPC's gravity will be turned on.

This is a potential fix for NPCs disappearing at bases, with the theory that they are

falling out of the world.

Thanks to closer ex

[UAI]

- New Utility AI task.
 - Look for a PathingCode on the NPC, and start patrolling about between all the

codes.

- NPC will scan for all PathingCubes nearby for a code that matches its Cvar

PathingCode.

- Optional buff will fire when the NPC reaches its target point.
 - Task will not end until the buff expires
 - Once buff expires, NPC will go to its next location.
 - If you want an NPC to walk to a point, and stand there for 10 seconds,

have the buff's duration set to 10.

Basic Example:

Setting pc=5 on a SpawnCube will set nearby NPC to path to cubes with the

number 5.

Version: 20.4.116.1950

[Blocks]

- Re-added crop trample

Add fcropsDestroy to the FilterTags to enable:

<!-- To make all crops destroy on touch -->

<append xpath="/blocks/block/property[@name='FilterTags' and contains(@value,</pre>

'SC_crops')]/@value">,fcropsDestroy</append>

- Added Guppycur's sprinkler to Bloom's Family Farming
- Added the Farmer NPC back for MyFarmer entity in Bloom's

Version: 20.3.113.106

Demo and water / crop overview: https://youtu.be/ApcwwfexxWU

"Bloom's Family Farming" Modlet contains sample XML configuration to:

- Turn on water requirement feature
- Update all crops to require water
- Updated metalPipe's to water pipe class
- Added My Farmer NPC (Uses Nurse model from 1-NPCCore (required))
- Added Crop Control Panel
- -Add Farm UAI

- Use this Modlet with the latest SCore and latest 1-NPCCore for a complete test environment.

[Crop Management]

- Improved the valve system to be a bit more reliable
- Fixed BloomTest01 Prefab used for testing:
 - Includes water tower, valves, pipes, and farm plots

[UAI]

- Improved Farming Task
 - Farmer task now harvests and replants crops

Version: 20.3.111.x

[Crop Management]

- Fixes for the UAI Task for planting/ checking
- NPCs will be able to:
 - a) Look in their inventory to find seeds
 - b) Plant those seeds
 - c) Once all seeds are gone, they maintain the crops
 - Checking for bugs (SCore doesn't have bugs, but the plants may)
 - Potentially watering the crops, avoiding water waste
 - d) Harvest crops when they are ready, and store crops in their inventory.
 - Any seeds harvested will be replanted.

Version: 20.3.110.1815 [Blocks]

BlockTakeAndReplace has a new property to allow you to specify which item is allowed.

This is a comma delimited list.

value="meleeToolRepairT1ClawHammer,meleeStoneTool" />

Updated BlockUtilities to add particles centered to the block, instead of at the edge.

[Crop Management]

- Added new Blocks for support:

BlockCropControlPanel - Used to debug and control the pipe system BlockFarmPlotSDX - Used to update the vanilla's FarmPlots

- -Added new FarmPlotData to hold FarmPlot information
- -Added PlantData to hold plant data
- -Added Pipe class to hold piping information
- -Added FarmPlotManager and WaterPipeManager to handle their tasks.
 - Removed pipe management from crop

[Utility AI]

- Added IsNearFarm consideration
- Added UAITaskFarming task

[Modlet]

Added new Bloom's Family Farming modlet to the Spherell. Mods repo

This modlet contains XML to turn on and manage the crop management system with

examples

Also includes a prefab called BloomTest01

- From menu, go into Prefab Tools and load up BloomTest01, then Play test. Added SphereiiFlat world to be used for durability testing.

Version: 20.3.105.1149

[Quests]

- FuriousRamsay has been working on fixing the distance restriction bug on quests
- New Objectives:

```
RandomGotoSDX, SCore
```

RandomPOIGotoSDX, SCore

- NetPackageQuestGotoPointSDX and NetPackageQuestGotoPointSDX to allow distance checks to work on dedicated servers (FuriousRamsay)

[MinEvents]

MinEventActionChangeFactionSDX2: Same as the MinEventActionChangeFactionSDX, except it resets the entity's attack and revenge target (FuriousRamsay)

 $<\!\!\!\text{triggered_effect trigger="onSelfBuffStart" action="ChangeFactionSDX2, SCore" target="self" value="undead" />\!\!\!\!>$

MinEventActionResetTargetsSDX: Resets the target's attack and revenge targets.

<triggered_effect trigger="onSelfDamagedOther"</pre>
action="MinEventActionResetTargetsSDX, SCore"/>

[NPCs]

- Added FuriousRamsay's fixes for SetDead(), and OnMission collision (should be able to fly with NPCs now)

[Caves]

- Fixed issue where random blocks would appear underground during the decoration phase.
- Modified Cave prefab locations to help avoid isolated prefabs
- Fixed an issue where the first level of caves did not have decorations.
- Currently, no cave openings are available when cave types are Mountain or DeepMountain.

[Crop Management]

- Initial Implementation of Advanced Crop Management features. This will likely be buggy.
- There's a lot to unpack here. Buckle up.
- When enabled, crops will need to be within a 5x5 block radious of water block.

This is configurable with the WaterRange on a per-plant basis. Default is 5. Each plant will record where it's water blocks are.

The CheckInterval is used to determine how often the plant will check its water

source.

- If the water is gone when checked, the plant will rescan for a new block.
- If no new water block is found, it will wilt.
- Whenever a plant successfully checks in with water, it will do 1 point of

damage to the water.

- When a water block's damage exceeds its max damage (100 by

default), it will turn into air.

Crop data is not persisted to disk. Rather, if data is missing, it simply rechecks and re-discovers.

- SCore's blocks.xml contains a new entry:

```
<!-- Turns on support for the PlantGrowingSDX, SCore features for more advanced
crop -->
                       cproperty class="CropManagement" >
                               <!-- Turns on logging to help debug -->
                               cproperty name="Logging" value="false"/>
                               <!-- Controls if crops are to be managed -->
                                <!-- How often the crops should check for water -->
                               cproperty name="CheckInterval" value="600" />
                               <!-- How many pipes to scan -->
                                coperty name="MaxPipeLength" value="500" />
                       As always, it is not recommended to change the SCore's blocks.xml directly when
adjusting, but rather use a modlet:
                               <!-- Turning on Crops-->
xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='CropManagement']/property[@name
='CropEnable']/@value">true</set>
                               <!-- Checks how often the Crop Manager will check in with the plants. -->
xpath="/blocks/block[@name='ConfigFeatureBlock']/property[@class='CropManagement']/property[@name
='CheckInterval']/@value">120</set>
               - Crops that you want to manage under the advanced crop management must use the new
classes:
                       BlockPlantGrowingSDX
                       It supports the following properties:
                               RequireWater: [ true/false ]
                                       Allows invidiaul plants to control whether they need water or not.
                                       - This can be read using extends, but overridden by the individual
block
                               WaterRange: [5]
                                       Allows individual plants to control how far away their water can be.
                                       - This can be read using extends, but overridden by the individual
block
                               PlantGrowing.Wilt: [ treeDeadPineLeaf ]
                                       If a plant goes without water for tool long, it will wilt into this block.
                                       - Can be air as well.
                               Wilt: [ true / false ]: default false.
                                       - If a plant cannot find a water source, it will wilt and destroy itself.
                       Example XML to convert all growable crops to use water.
                               <!-- Setting up defaults -->
                               <!-- Changing all crops to using the PlantGrowingSDX class -->
xpath="/blocks/block[@name='cropsGrowingMaster']/property[@name='Class']/@value">PlantGrowingSDX,
SCore</set>
                               <append xpath="/blocks/block[@name='cropsGrowingMaster']">
                                       <!-- If the crop needs water to survive. Default: false -->
                                       cproperty name="RequireWater" value="true" />
```

<!-- how far away that block can be from a water source: Default is

5 -->

cproperty name="WaterRange" value="5" />

<!-- The block the crop downgrades too if its dead. Default: Air--> <property name="PlantGrowing.Wilt" value="treeDeadPineLeaf"/>

<!-- if set to true, the plant will die when there is no water near by.

-->

/>//preserved

- In order to better support crops, and make them more fun, support for water pipes have been added.

Two new classes have been written:

BlockWaterPipeSDX: This block designates a block as a water carrier. It is not a water source itself, but can allow water to 'move' through.

- One section of the pipe must touch a water source block.

- In this example, I convert all metalPipe's to be used as water

pipes

<append xpath="/blocks/block[starts-with(@name,</pre>

'metalPipe')]">

SCore" />

</append>

BlockWaterSourceSDX: This block designates a block as a water distributor. It is not a water source itself.

- if the BlockWaterSourceSDX is connected to a series of BlockWaterPipeSDX which is connected to a water source block, it will act like a water source block.

In this example, I'm using the metalPipeValue as a distributor
 set

xpath="/blocks/block[@name='metalPipeValve']/property[@name='Class']/@value">WaterSourceSDX, SCore</set>

A water source block is currently defined as:

BlockLiquidV2: Water from a river, lake, or dumped from a bucket terrBedRock: if you connect a pipe to bedrock, it will act as an unlimited

water source.

Version: 20.3.101.172

- Fixed recursive method that was causing crashes on MarkToUnload()
- Modified TileEntityAlwaysActive patch.

This feature can be used on any other TileEntities to distribute a buff similar to the CampFire's warming buff.

Note: This excludes Forge and Workstation Tile Entities.

- Disabled the IsQuestGiver on the Entities

Version: 20.3.100.1629

- Fixed SpawnCube2 issue on dedi where preview was not being cleared.
- Fixed GotoPOISDX to prefer exact names, rather than wild card

Version: 20 3.100.1044

- Reverted Sebastian Cave changes, and changed default to Legacy
- Added working cave entrances
- Widened cave system to allow more room, and some chaos.
- Fixed cave spawning of zombies.
 - Spawning may be a bit sparse, due to the many levels of the cave systems and max

zombies.

Suggestions on fleshing it out more would be to add in SpawnCubes to the blockplaceholders that spawn more zombies.

- Fixed double spawns on SpawnCube on dedi
- Turned off SmarterEntities by default in blocks.xml, to get rid of the path node warnings.
 - Max revisit later if functionality has changed due to turning it off.
- Turned off Sound when NPC is on a mission.

Version: 20.3.93.840

- Reduced the height position of the SetPosition() to calm their leader when on a mission.
- Overrode ProcessDamageResponse() not to process damage if NPC is on a mission
- Overrode IsImmuneToLegdamage, returning true if OnMission.
- Fixed possible null ref in IsInertEntity()
- Updated MarkToUnload to go to base class when NPC is ordered to Stay or Patrol.
 - This is an attempt to fix the disappearing NPCs at the bases.

Version: 20.3.84.x

- When driving in a vehicle, NPCs will no longer teleport to you after a distance, but does a SetPosition() on a tighter range
- NPCMOD-FT-0045 : Added DespawnNPC MinEffect: <triggered_effect trigger="onSelfBuffRemove" action="DespawnNPC, SCore" />
- Added new Property for entities, which controls if they run "leader checks" for increase performance. Defaults to True.

cproperty name="Hirable" value="false" />

- Added new Property for entities, which controls if they can give or process quests. Defaults to true.

cproperty name="IsQuestGiver" value="false" />

Version: 20.2.83.1240

- Performance Tweaks:
 - Disabled DrawLine in Utils from raycasting path finding
 - Disabled Progression on NPCs
- Updated Pathing Cube to disallow non-owners to edit
- Similar change to the SpawnCube with above change
- Added TimeToDie for EntityEnemySDX
- Added DialogAction for AddItemSDX, SCore

Version: 20.2.60.742

- Merged khzmusik's fix for infinite resource bug

Version: 20.2.57.x

- Loot task work.
- SpawnCube breaks after trigger now.

Version: 20.2.56.x

- Added more enhancements for SpawnCube2SDX. See blocks.xml for examples on advanced configuration.
 - Fixed issue with Sleepers not getting the correct buffs on waking up.
 - Fixed issue with Attack UAI being locked when target was still visible but not accessible.

Version: 20.2.55.x

- Fixed issue with bad ray cast, causing NPCs to shoot through doors and walls
- Multiple fixes to the BlockSpawnCube2SDX. This cube will allow you to spawn in a one-time entity.

Example Usage:

cproperty name="Class" value="SpawnCube2SDX, SCore" />

<!-- Will spawn NPC furiousRamsayBristonStart_FR, give them the buffOrderStay, pathing cube 0, and auto-assigns yourself as their leader -->

cproperty name="Config"

value="ec=FuriousRamsayBristonStart_FR;buff=buffOrderStay;pc=0;leader=true" />

<!-- Will spawn the NPC and ordered to Stay. They do not have a pathing code, no

leader -->

cproperty name="Config" value="ec=FuriousRamsayBristonStart_FR;task=stay" />

Note: There is a delay of about 5 seconds on MP servers for the leader to be auto-assigned.

- Added support for new cvar called FailOnDistance.
- If this cvar is set on the player, all hired NPCs will use this FailOnDistance range, rather than the one hard coded in the utilityai.
- If this cvar is set on the NPC, then that NPC will use that range, instead of the one on the player or utilityai.

Version: 20.2.45

- Added IsAlwaysAwake to be false. This allows Sleeping NPCs to be fully awake on spawn in.

XML Property can be toggled with the following line:

- Reduced the Auto-scan for pathing cubes to be a lot smaller (about a block away)
- Default PathingCode is -1, so avoid this number, as its equivalent to not having a code.
- Gave sleeping NPCs hearing for a threhold to wake them up.
- Disable UAI when NPCs are sleeping
- Slightly changed the consideration for InWeaponRange, to take in effect if it should shoot a player, if it could see it, but not reach it.

[XUI]

- Added a few more bindings to npc stat window

Version: 20.2.44

- Added toggle to turn on and off Advanced signs (0-SCore/Config/blocks.xml) to turn off gif / img support
 - Moved Sign reading data to a universal class to allow EntityAliveSDX to re-use code
 - Added EntityAliveSDX to read from a nearby Pathing Cube

Using the PathingCube (or PathingCube2) blocks, you can place an invisible sign near a

sleeper

Once placed, you can configure it as follows

Task=stay [wander, guard, follow]

- This will give the nearby EntityAliveSDX a starting order.

Example, you could put in Task=stay for NPCs that you want to behave

like a turret

Internally, the above tasks gives SCore's based-buffs (buffOrderStay,

buffOrderWander, etc)

Task can also be used to specify a general buff.

Example: https://youtu.be/luK_sN3WHZ4

- Fixed a null ref where NPC following a NPC leader

With this error fixed, the old herd spawner now works. This spawner is a special EntityClass that you can add to your sleeper volume, or in entitygroups, and will spawn multiple entities. This can be used, for example, to set up a Solider Group, which could have an officer, along

This can be used, for example, to set up a Solider Group, which could have an officer, along with a few grunts. The soldiers will follow the officer around as they would if hired by a player.

For this to work, you must give them the NPCHired, or equivalent, UAI. These do not need to be hirable by the player, but must contain the follow tasks.

When you spawn in the SoldierPackMelee entity, it'll spawn the leader and followers.

Example: https://youtu.be/OSlfwuX9r6Y

EntityClasses.xml example:

<!-- the Leader is spawned in first, then the Followers. The Followers set their Leader cvar to that of the Leader. -->

spawned. -->

</entity_class>

</entity_class>

Version: 20.2.43.147

- Version bump to catch up to the Alpha 20.2

[NPC Fixes]

- Due to the refactoring for the damage to block code, some issues are listed as potentially fixed only.

Tested:

- Recommended that NotPathBlockedSDX, SCore for approach-style tasks

- NPCMOD-SP-0071 Hired NPC names show up twice above their heads (Potentially)
- NPCMOD-SP-0062 Melee NPCs run max distance away from their target then begin their approach (Potentially)

- NPCMOD-SP-0075 NPCs will get stuck on certain blocks (like trees) (Potentially)

- NPCMOD-SP-0048 NPCs can talk to the player while fighting, until they are hit by an enemy - Added a call to the UAI System IsEnemyNearBy() call (10 distance).

- NPCMOD-DEDI-0006 NPCs can be hired by another player after you've hired them and log out - Changed the GetLeaderOrOwner() call to just check for existence of cvars as a gap

solution,

rather than expecting the entity to be online in order for it to be valid.

- Many, many UAI tweaks, cleaning up old code, ironing out behaviours.
- Gound work for expanding the available ItemActions 2,3,4.
- Added MeleeSDX to allow non-EntityEnemy's target blocks effectively.

[UI]

- Fixed the NPCStatWindow to update properly
- Fixed Respondent Name to display

Version: 20.0.39

[NPC Fixes]

Initial implementation of Break Blocks functionality.

[Block Changes]

- Added the ability to trigger SpawnCube when placed by a player.

Version: 20.0.38

[NPC Fixes]

NPCMOD-SP-0072 Hired NPC names disappear from life bars when you enter a vehicle

NPCMOD-SP-0076 Limit opening of doors to IsHuman or IsHired

NPCMOD-SP-0073 Hired NPC footsteps can be heard when you hop on a bike and travel

- Also disable footsteps when flying tags is used

NPCMOD-SP-0075 Potentially fixed: NPCs will get stuck on certain blocks (like trees)

Hired NPCs which are ordered to Stay will unload when a chunk is unloaded, and re-load back in. Merged Food Spoilage patch

Version: 20.0.33.1824

[Dialog]

- Made Dialog requirement Hired simpler

[NPC Fixes]

- Removed NPCs that were told to guard / stay not to show up in Companion screen
 - This leaves room for NPCs that are currently with you.

[Fixes]

- Fixed a bug with QuickContinue when steam wasn't running at all.

Version: 20.0.32.x

[Debug Information]

- Added Logging for when NPC has died, it will display its active buffs in the log file

[NPC Fixes]

- Fixed an issue where NPCs would get confused when two players were nearby
- Fixed an issue where NPCs wouldn't talk to you without a very long delay after a fight

Version: 20.0.30.x

[Configuration Change]

- Disabled Advanced Workstation from being enabled by default

[NPC Fixes]

- Hired NPCs will drop their backpacks, if anything is in them
- Fixed Bandit loot containers

Version: 20.0.29.x

[Fixes]

- Fixed null ref when trying to get a block outside of world bounds in GetGamePath.
- Fixed Spook's SkyManager reference with IsBloodMoonVisible.
- Connected progression into lock picking, and adjusted default difficulties (adjustments in the Configuration Blocks.xml of the SCore)
- Fixed a potential issue with Buried Supplies not working when Trader Protection is removed
 Note to Self: If you want to test Clear Zombies quest, remember to enable Enenmy
 Spawning. It'll save a lot of confusion.

[XUI Changes]

- Added new XUiC_NPCStatWindow for Sirillion hooks
- Fixed issue where a null reference would happen on empty strings.

[Quest Changes]

- Added NetPackage to better handle GotoPOISDX
- Added Biome Filtering for GotoPOISDX:

cproperty name="biome_filter_type" value="ExcludeBiome" />

cproperty name="biome_filter" value="wasteland" />

- Added additional debug for GotoPOISDX. Enter in dm mode to see.
- Note: If a quest does not show up on the map, confirm you have nav_object property inside the objective

cproperty name="nav_object" value="return_to_trader" />

- Changed GetPOIPrefabs() to GetDynamicPrefabs() for searching for GotoPOISDX
- Fixed null ref when PrefabName was not set.
- Created a QuestUtils static class to share code between NetPackage and GotoPOIS

[NPC Changes]

- Added hired NPCs to show up in Companions window (Configuration block option to toggle)
- Color adjusted the hired NPCs on compass to match companion window, when enabled.
- Partial hook up for NPCs to earn experience
- If an entity is dead, pass the CanTakeDamage checks. The dead get no reprieve.
- Fixed wander where the position was in the air, causing NPCs to stop trying to move there.
- Hired NPCs will no longer take damage from traps (BlockDamage).

If they are smart enough to get paid, they are smart enough to step carefully through barb

wire

- If NPCs have anything in their bag (backpack) or loot container (what the player has access too), a bag will drop with the contents.
 - If no contents, then no bag drops.

[Buffs.xml Changes]

- New Buff orders:

buffOrderGuardHere Sets cvar to Order 2, and sets guardPosition to where the player is standing.

- Updated Buff Order:

buffOrderStay updated to set guardPosition to be where the NPC is standing.

[Dialog Changes]

- Added new Dialog requirements:

<requirement type="HasPackage, SCore" requirementtype="Hide"

value="NPCAnimalBasic" /> <!-- true if this UAI Package is on this NPC-->

<requirement type="HasPackage, SCore" requirementtype="Hide"

value="!NPCAnimalBasic" /> <!-- true if this UAI package is NOT on this NPC -->

<requirement type="HasTask, SCore" requirementtype="Hide" value="LootBasic" /> <!-True if this UAI Action Name is on the NPC -->

<requirement type="HasTask, SCore" requirementtype="Hide" value="!LootBasic" /> <!-True if this UAI Action name is NOT on this NPC -->

[UAI Changes]

- Added new UAI Task called Guard. This task can replae the Stay action using IdleSDX.
 - Guard is similar to Stay and can be a replacement for Stay.
- Two new MinEffectActions have been created for this, and is applied by the buff in the SCore's buffs.xml
- MinEventActionGuardHere : This sets the NPC's guard position to match the player's current position, as well as the direction the player is looking.
- MinEventActionGuardThere: This sets the NPC's guard position to match where the NPC is currently staying, with the look direction the same.
 - Added additional feature for the Wander UAI task:

<task class="WanderSDX, SCore" interest="Loot:cntBirdnest"/>

When interest is specified, there is a 30% chance triggering a TileEntity scan matching the value.

For example, interest="Loot" will search for all Loot containers in the area, and pick one.

If the TileEntity's entry has a :, that further allows filtering based on block name.

<task class="WanderSDX, SCore" interest="Loot:cntBirdnest"/> <!-- scan for any
loot container that has a block name that starts with cntBirdNest -->

If interest is not specified, a standard wander is triggered.

- Fixed a bug in AttackTarget where an NPC that was told to stay, would take a few steps out of position to attack

[Mecanim Animation]

- Added simple null check when the entity using Mecanim is invalid.

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