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[Showcase] Hoiktronic Counter Exclusive Premier & Feedback for Writen Guide

Discussion in '[T-MEC] Terraria Mechanical Engineering Corps' started by ZeroGravitas, Nov 30, 2014. [T-MEC] Terraria Mechanical Engineering Corps Terraria - Cross-Platform Discussion Terraria Guides

Thread Status: Not open for further replies.

ZeroGravitas

The Destroyer

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While I catch some much needed ZZzzz's, I thought I'd give you guys here a couple hours headstart on the rest of the community with my lastest, longest and most delayed video to date (hopefully my last big hoik application reveal):

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DicemanX and notjustinbailey like this.

one pressure plate, right?

Hoiktronic Counter Measures Ter.



Clearly the video itself is finished, but I'd greatly appreciate any feedback as to what I should touch on when (and if) I write up a guide for the forum's guide section. Are there any obvious engine choices I've missed out, or some unlikely one you'd like testing (include link/screen shot please). And are there any points where I've lost you, dear viewer? 👺 Or is it overly explained?...

Tutorial Threads and Info

Great detailed video! Is the house engine of your design? And if it is could it be used with upward-facing slopes instead?

Zemmitt ZemmySix

Retinazer Start a Conversation

ZeroGravitas likes this.

-Sprites- -Drawings- -Suggestion-

Excellent video guide as always! The degree of precision enabled by hoiks, and the amazingly clever set-up to count activations makes this a definitive guide to maximizing activations per second. Very well done! A few things that I wanted to clarify or recommend for inclusion in the write-up:

DicemanX

Brain of Cthulhu

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2) In some of these engines you have 1 pressure plate, although in your guide I think it would be good to present your recommended set-up to activate two pressure plates so that all 6 statue activation points can be activated close to or at 60/sec. I'm assuming that you can only activate three activation points with

1) The house engine is a brilliant idea, although you remove the second pressure plate and do a count with only one pressure plate. Will both activate if you

were to do it with two? You demonstrated that in one tick (and thus a jump from one tooth to another tooth) will only activate one pressure plate, but the

way the two pressure plates are positioned in the house engine (immediately below the teeth) it's not clear to me whether one or both would be activated.

plates? What would happen if the number of birds used increased from 3 to 6 (or maybe even 10) if the statue is dropped further down below the pressure plate track? You also mention the danger of synchronization although there are ways of spawning the birds to avoid that - maybe that might be touched upon (although that's perhaps drifting a bit out of scope).

3) In the bird engine with 8 plates and 3 birds, you mention that 27 activations/sec is the best case scenario. What would happen if you added more pressure

I'll need to try the house engine in the Horseman's Blade farm, and the ultimate skeleton engine in the Ectoplasm farm. For the ultimate engine, would you suggest having two side-by-side set-ups to have two pressure plates activated 60 times/sec, or is there a better way to add the second pressure plate? Again, great job on the video - this will be of immense assistance to those wanting to maximize (statue) activations!

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ZeroGravitas likes this.



Yup. I like Purple.

Very good video! I learned something new about the timers and the mechanics of making a timer in Terraria! Thanks~! Also, new video for the Engineer series

Zemmy6 said: ↑

DicemanX said: ↑

only have the up blocks, right?)

. Will both activate if you were to do it with two?

plates going at 30act/s each (or far slower!).

will be coming soon!



Is the house engine of your design? And if it is could it be used with upward-facing slopes instead? Yes, of course. It took quite a bit of fiddling to nail down a design that works just right. I did have designs with 'top' hoiks, but as you might have seen (briefly)

in the video, the NPC house marker sits underneath any inactive blocks within the house walls. This tends to spawn the NPC outside of the house, by putting

testing!). So you should be able to make an up slope only hoik/house engine, yes. I guess I should publish a version in the guide for all you console pees (who

them inside the floor (helpfully), which makes getting the blighters in there a bit of a chore (although they might then stay there indefinitely ok, needs



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activated, since it stays within the collision box of the NPC (skeleton or player) in box hoik positions. The character must move entirely off, and then back onto a plate to (re)activate it (even if only off for 1 tick). DicemanX said: ↑

Yes. If they are positioned as shown in the video before I remove the spare one. Note that a pressure plate in between these 2 plates will not get repeatedly

Absolutely. The house engine was carefully designed so that there were 2 non-adjacent plates being activated, specifically to allow 6 separate wiring outputs

from it. More demonstration of this engine planned for a future (smaller!) application video. DicemanX said: ↑

What would happen if you added more pressure plates? What would happen if the number of birds used increased from 3 to 6 (or maybe even 10)

I think it would be good to present your recommended set-up to activate two pressure plates so that all 6 statue activation points can be activated close to or at

You can see in the measurement results that there is a diminishing return for each extra plate you add to the length of bird engine track. It is approaching (but will never reach) the bird's maximum of ~10 (10.5?) activations/s determined by the bird's speed of (approximately) 10.5 tiles/s (please add/correct here if you find a more precise figure). In theory, each extra bird in the track is then a multiplier. So 10 birds in an endless track would achieve 105 activations per

second. However, there will be then be overlapping activations on the same tick, which are generally not usefull (outside of carefully choreographed, specific cases). So a natural cap of 1 activation every tick, 60 times/s. But in practice the rate will be worst that that, since there's extremely low odds of some/most

of the birds not being synchronise. Add on the turn-around delay and there's a very high probability of multiple ticks without any activations (even with 10 birds and a long track). I don't know of a way to spawn garanteed non-synchronised birds. It might be possible, but may be down to luck whether or not a simple setup exists for this. One would basically need to iterate through various auto-reactivation setups, checking signal output frame by frame until you meet success. DicemanX said: ↑ For the ultimate engine, would you suggest having two side-by-side set-ups to have two pressure plates activated 60 times/sec

I'm struggling to think of a context where that might be useful. With the 3 mob proximity spawn cap on statues, even if you killed the first 3 within 1 tick, the second 3 could not be spawned on the same tick (it'd be blocked, and waste the next 30 ticks on input cooldown), so may as well use an engine with 2 separate

Tutorial Threads and Info

Oh, and I've posted a link to the video on Redit, so if anyone here fancies showing their appreciation, I'd be grateful.

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ZeroGravitas said: ↑

DicemanX likes this.

in one tick). For the Horseman's Blade Frost Moon farm I have yet to test whether I can push the limits with goldfish statues in the rain. Brain of Cthulhu Start a Conversation [IMG]



DicemanX

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You could try employing an assistant to continually shower your statues with vile powder... Other than that, yeah, blood moon boss crusher could be pretty damn potent. Certainly a very promising route to explore in trying to achieve what the other thread set out to do. I'd be interested to see whether a bunny

statue can, in fact, spawn 6 (corrupt) mobs on the same tick, or whether it's a slightly more convoluted process, like a regular bunny being spawned and then

Too bad the Frost Moon and Blood Moons don't overlap, but there might be some use in creating a Horseman's Blade boss killer during a Blood Moon.

I had in mind bunny and goldfish statues during a blood moon, or perhaps even a goldfish statue in the rain (not sure if it's possible to spawn 6 walking goldfish

DicemanX said: ↑ Too bad the Frost Moon and Blood Moons don't overlap, but there might be some use in creating a Horseman's Blade boss killer during a Blood Moon.

them being converted into a corrupt version next tick. Or same tick, before being rendered, but after all wiring events...

Terraria Engineering - Autofarms and Hoiktronics Contraptions: https://www.youtube.com/channel/UCllYBm-\_FbqWul92o6zPXfw

Ah, ofc, yes. Corrupt bunnies! I'd been thinking about the possibilities of using them as a 'power' source for hoik computing (since they can be very numerous). But their hit box is a tile shorter than regular bunnies, making them more awkward (still mean to try).



ZeroGravitas The Destroyer

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Nuts, the corrupt bunnies are limited to just 3 per tick even if all 6 activation points are activated: 🔀[IMG] Used this set-up to have 2 different skeletons hit pressure plates simultaneously to spawn corrupt bunnies (blood moon in effect). The spawned bunnies move

together so I determined how many spawned by hitting them with the Scythe and counting the number of damage indicators that pop up. Only three popped



DicemanX

Brain of Cthulhu

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up.

ZeroGravitas likes this.

DicemanX said: ↑

ZeroGravitas said: ↑

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inputs? (e.g. a second plate on the next hoik step (same run) won't work and produce 6 corrupt bunnies?) Nice little experimental setup btw! 👑

Yeah, oh well. But I pressume you do get 6 if you stagger the second 3 by 1 tick? And I presume you then have to wait the 0.5s to reactivate the same statue

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DicemanX

Brain of Cthulhu

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I shifted the pressure plate 1 tooth forward, so that the two pressure plates were staggered by 1 tick. All 6 corrupt bunnies spawned! However, in the staggered set-up, when I connected one wire from one pressure plate and another wire from the other pressure plate to the same activation point, only one

Yeah, oh well. But I pressume you do get 6 if you stagger the second 3 by 1 tick? And I presume you then have to wait the 0.5s to reactivate the same statue inputs?

I'll have to check this with goldfish statues in the rain too. Terraria Engineering - Autofarms and Hoiktronics Contraptions: https://www.youtube.com/channel/UCllYBm-\_FbqWul92o6zPXfw Interested in Terraria Engineering? http://forums.terraria.org/index.php?social-forums/t-mec-terrarian-mechanical-engineering-corps.203/

(e.g. a second plate on the next hoik step (same run) won't work and produce 6 corrupt bunnies?) Nice little experimental setup btw! 👑

ZeroGravitas likes this.

📝[IMG] This means that, assuming the other mobs don't affect the number of corrupt bunnies in the world, the limit to the number of corrupt bunnies that can exist on screen/in the world is 57x3 +(1 to 3) = 172 to 174. Still need to repeat that but at least it gives a ballpark figure. So for an engine that maximizes spawns at 6

times - on the 59th try, there were no longer any more bunny spawns.

bunny spawned. The cooldown was in effect.

EDIT: I tested fish statues in the rain and saw the exact same results I saw for the corrupt bunny statues. 3 walking fish spawned per tick when two pressure plates were activated and connected to 3 activation points each, and all 6 walking fish spawned when the pressure plates were positioned 1 tick apart. This is pretty huge as far as the Moon arena goes - that means it might be worthwhile to try lots of fish statues in the mob box and run Frost Moon in the rain. Last edited: Nov 30, 2014

Did another test. I disabled one of the skeleton hoiks, and used the other to activate the bunny statue. I put a ghost wall by the bunny statue and counted how

many times I could activate the statue until bunnies stopped spawning (the pressure plate still activated three activation points). I activated the statue 58

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spawns every 0.5 seconds it would take between 14-15 seconds to maximize corrupt bunny spawns from one statue.

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